



Polypropylene Products and Properties

NORTH AMERICA

Innovation, Technology and Sustainability

As the leading producer of thermoplastic resins in the Americas and the world's largest producer of biopolymers, Braskem is constantly innovating by launching new products in partnership with clients, bringing improvements to society and the environment.

Braskem 





Polypropylene
PP



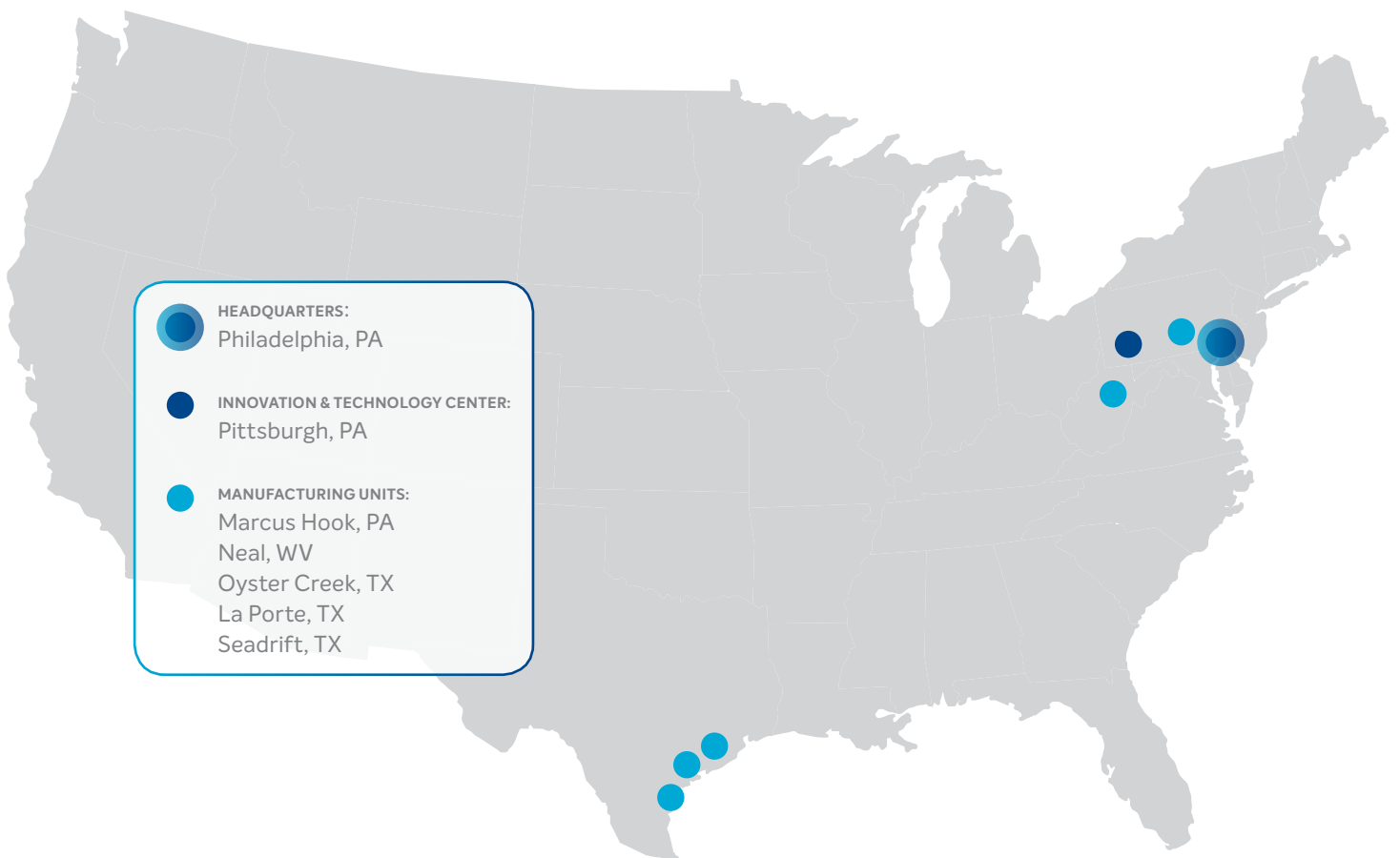
Braskem:

Expanding horizons with
products and services

With installed resin production capacity of over 20 million tons per year, Braskem has supported the plastic chain by developing innovative products, providing technical know-how and expanding production capacity.

The operational synergy between Braskem's plants and offices around the world enables it to better meet the growing needs of both our global and local clients through the supply of products and services.

In addition to offering products and services that promote sustainability, Braskem constantly monitors and seeks ways to reduce water and energy consumption, as well as waste and effluent generation, further reducing the environmental impact of its operations in Brazil and around the world.





Compression Molding

Compression Molding - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa
HECO	TI4150WR	15	220,000	1,517	1.5	80	4,600	32
		Excellent mold release, very high flexural modulus						

NOMENCLATURE

HOMO = Homopolymer
 RACO = Random Copolymer
 HECO = Heterophasic Copolymer
 HCHP = High Crystalline Homopolymer

This information reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product. The values in this report can be modified without prior communication from Braskem.

For product questions or to discuss other applications, contact Braskem Technical Service Engineers.



Blow Molding

Blow Molding - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa
RACO	6D20	1.9	150,000	1,035	11	59	3,900	27
	Consistent processability, good regrind, good gloss and clarity, low taste and odor transfer							
	R131-02A	1.9	150,000	1,035	11	59	3,900	27
	Consistent processability, good regrind, good gloss and clarity, low taste and odor transfer, contains an antistatic additive							
	6D83GA	1.9	155,000	1,069	5.5	294	4,100	28
	Consistent processability, low plate-out, good regrind, good gloss and clarity, low taste and odor transfer, contains clarifying additive, high Izod impact							
	6D83K	1.9	155,000	1,069	5.5	294	4,100	28
	Consistent processability, good regrind, good gloss and clarity, low taste and odor transfer, contains clarifying additive, high Izod impact							
	RP650	2.0	170,000	1,172	1.2	64	4,600	32
	High flexural modulus, next generation clarifier providing superior aesthetics and enhanced optical properties							

Film



BOPP

BOPP - Typical Properties

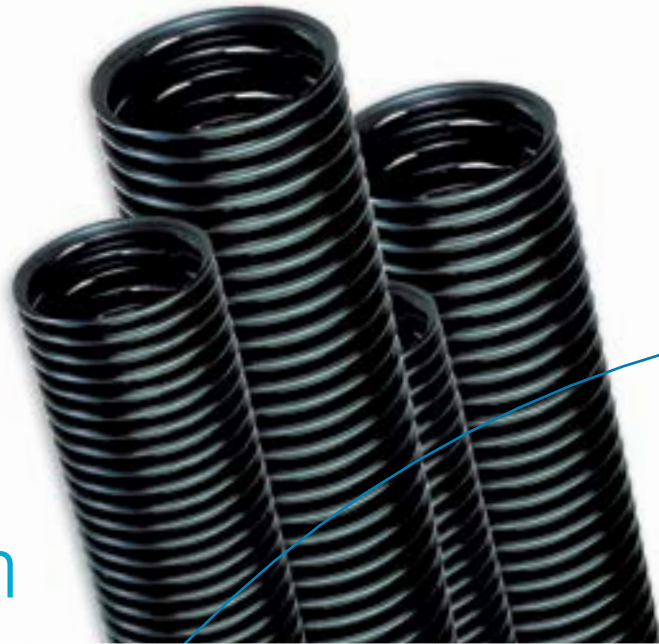
Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)		
ASTM Method		D1238	D790A		D256A		D638		
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa	
HOMO	INSPIRE 6025	2.0	270,000	1,862	0.7	37	5,600	39	
	Broad processing window, high stiffness material enables downgauging								
	FF030F2	3.0	210,000	1,448	0.8	43	4,900	34	
		Designed for oriented film applications, provides excellent color and processing stability, superior optical and mechanical properties, broad processing window							
HOMO	PG80Q	8.0	175,000	1,206	0.7	37	4,600	32	
	Excellent color and overall manufacturing performance, superior optical and mechanical properties, broad processing window								
HECO	T14003F	0.3	210,000	1,448	NB	NB	4,200	29	
	Exceptional Izod impact, very high flexural modulus, good low temperature drop impact								
HECO	INSPIRE 114	0.5	215,000	1,483	NB	NB	4,350	30	
	Improved stiffness, heat resistance, puncture strength, and toughness over polyethylene films								
RACO	6D20	1.9	150,000	1,035	1.1	59	3,900	27	
	Superior gloss and clarity, low taste and odor transfer								
	DS6D81	5.0	80,000	551	1.7	91	2,750	19	
	Superior optical properties, designed for heat seal applications								
	DR376_01	7.0	80,000	551	1.7	91	2,750	19	
Excellent processability for cast film with exceptional edge flow and speed, designed for heat seal applications, outstanding catastrophic tear resistance									
RACO	DS6D82	7.0	80,000	551	1.7	91	2,750	19	
	Superior optical properties, designed for heat seal applications								
RACO	DS6D21	8.0	110,000	758	0.9	48	3,620	25	
	Particularly suited for applications requiring high clarity and gloss, designed for metalizing and printing applications								

BLOWN FILM

Blown Film - Typical Properties								
Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa
HOMO	INSPIRE 6025	2.0	270,000	1,862	0.7	37	5,600	39
		Broad processing window, high stiffness material enables downgauging						
	PM25	3.0	270,000	1,862	0.7	37	5,600	39
Broad processing window and excellent stiffness in a non-nucleated, non-phosphite polymer								
HECO	T14003F	0.3	210,000	1,448	NB	NB	4,200	29
		Exceptional Izod impact, very high flexural modulus, good low temperature drop impact						
	INSPIRE 114	0.5	215,000	1,483	NB	NB	4,350	30
Improved stiffness, heat resistance, puncture strength, and toughness over polyethylene films								
RACO	6D20	1.9	150,000	1,035	1.1	59	3,900	27
		Superior gloss and clarity, low taste and odor transfer						

CAST FILM

Cast Film - Typical Properties								
Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa
HOMO	INSPIRE 6025	2.0	270,000	1,862	0.7	37	5,600	39
		Broad processing window, high stiffness material enables downgauging						
	PG80Q	8.0	175,000	1,206	0.7	37	4,600	32
Excellent color and overall manufacturing performance, superior optical and mechanical properties, broad processing window-								
HCHP	INSPIRE 6025N	2.5	300,000	2,068	0.7	37	5,700	40
		High performance, high crystalline homopolymer with exceptional stiffness and good optical properties						
	D218_00	8.0	315,000	2,171	0.7	37	5,800	40
Excellent clarity, superior stiffness and heat resistance over conventional polypropylene in blown film, cast film, and sheet extrusion								
HECO	T14015F	1.6	175,000	1,207	NB	NB	3,800	26
		Designed for superior balance of stiffness and impact strength, high melt strength for blown film applications, performs at low temperatures						
	KN-501	8.0	170,000	1,172	2.5	133	3,700	26
Excellent color and process stability, excellent long term heat aging properties, wet/dry environment resistance								
RACO	DR376_01	7.0	80,000	551	1.7	91	2,750	19
		Excellent processability for cast film with exceptional edge flow and speed, designed for heat seal applications						
	RG70Q	7.0	180,000	1,241	0.9	48	4,600	32
		Consistent processability, high clarity and gloss						
DS6D21	8.0	110,000	758	0.9	48	3,620	25	
	Particularly suited for cast film applications requiring high clarity and gloss, designed for metalizing and printing applications							



Extrusion

Extrusion - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	MPa	ft-lb/in	J/m	psi	MPa
HOMO	F006EC2	0.5	200,000	1,379	1.3	69	4,900	34
	Multipurpose, suitable for a wide range of applications, enhanced long term heat aging							
HOMO	H521	3.6	240,000	1,655	0.7	37	5,400	37
	General purpose, low water carryover							
HCHP	D218_00	8.0	315,000	2,171	0.7	37	5,800	40
	Contains antiblock and nucleating additives, high flexural modulus							
HECO	TI4003F	0.3	210,000	1,448	NB	NB	4,200	29
	Exceptionally high Izod impact, very high flexural modulus, good low temperature drop impact							
	INSPIRE 114	0.5	215,000	1,483	NB	NB	4,350	30
	High melt strength, high toughness, excellent processability, high impact, high heat resistance							
	TI4007G	0.7	175,000	1,207	NB	NB	4,200	29
	Exceptionally high Izod impact, superior low temperature drop impact							
	TI4015F	1.6	175,000	1,207	NB	NB	3,800	26
Superior balance of stiffness and impact strength								
HECO	TI4020N	2.0	220,000	1,517	NB	NB	4,000	28
	Exceptionally high Izod impact, superior low temperature drop impact, good organoleptic properties, nucleated							
HECO	C7054-07NA	7.0	155,000	1,069	NB	NB	3,220	22
	High stiffness, high toughness, contains nucleating and antistatic additives							
RACO	DR376_01	2.0	170,000	1,172	1.2	64	4,600	32
	High flexural modulus with superior aesthetics and enhanced optical properties							



Fiber

Fiber - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)		
ASTM Method		D1238	D790A		D256A		D638		
Units		g/10 ⁵	psi	Mpa	ft-lb/in	J/m	psi	Mpa	
HOMO	D036W6	3.6	240,000	1,655	0.7	37	5,400	37	
		General purpose, low water carryover							
	H521	3.6	240,000	1,655	0.7	37	5,400	37	
		General purpose, low water carryover							
	D080T	8.0	230,000	1,586	0.6	32	5,400	37	
		Multipurpose, suitable for a wide range of applications							
	D115A	11	230,000	1,586	0.5	27	5,200	36	
		Multipurpose, good color, excellent process stability							
	D130C	14	220,000	1,517	0.5	27	5,400	37	
		Suitable for fine denier staple fiber and high speed fiber spinning							
	D180M	18	190,000	1,310	0.5	27	5,100	35	
		Multipurpose, suitable for a wide range of applications, low gas fade							
D180A2	18	220,000	1,517	0.7	37	5,100	35		
	Multipurpose, suitable for a wide range of applications, excellent melt stability								
CP250H	25	170,000	1,172	0.4	21	4,700	32		
	Narrow molecular weight distribution, low smoke/condensate								
CP360H	34	170,000	1,172	0.4	21	4,700	32		
	Narrow molecular weight distribution, low smoke/condensate								

Injection Molding



Injection Molding - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)		
		ASTM Method	D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa	
RACO	RP350	12	155,000	1,069	1.1	59	4,300	30	
		Processing stability, low odor, good flow and set-up behavior, superior clarity, aesthetics and enhanced optical properties, excellent mold release							
	TR3350CW2	31	155,000	1,069	1.0	53	4,100	28	
		Good mold release, superior processing stability, superior clarity, nucleated, superior aesthetics and enhanced optical properties							
	TR3350MS	35	125,000	862	1.0	53	3,600	25	
		High impact performance, excellent mold release, superior clarity, excellent processability							
	RP250	35	170,000	1,172	1.0	53	4,500	31	
		Superior processing stability, superior clarity, aesthetics and enhanced optical properties, excellent mold release							
	R7021-5ORNA	50	155,000	1,069	1.0	53	4,000	28	
		Good impact properties, excellent optics, fast cycle times, contains clarifier and antistatic additives							

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa
HECO	TI4007G	0.7	175,000	1,207	NB	NB	4,200	29
		Exceptionally high Izod impact, superior low temperature drop impact						
	TI4020N	2.0	220,000	1,517	NB	NB	4,000	28
		Exceptionally high Izod impact, superior low temperature drop impact, good organoleptic properties, nucleated						
	TI6035NB	3.8	140,000	966	NB	NB	3,100	21
		Exceptionally high Izod impact, superior low temperature drop impact						
	TI4040WT	4.0	205,000	1,414	3.5	187	4,400	30
		Superior drop impact at refrigeration temperature, very high flexural modulus, nucleated, good mold release						
	C7054-07NA	7.0	155,000	1,069	NB	NB	3,220	22
		High stiffness, high toughness, contains a nucleating and antistatic additive						
	KN-501	8.0	170,000	1,172	2.5	133	3,700	26
		Excellent color and process stability, excellent long term heat aging properties, wet/dry environment resistance						
	TI4150WR	15	220,000	1,517	1.5	80	4,600	32
		Very good mold release, very high flexural modulus						
	C702-20	18	150,000	1,034	3.5	187	3,000	21
		High impact performance, suitable for a wide range of injection molded applications						
	C702-20NA	18	180,000	1,241	3.5	187	3,300	23
		High impact performance, contains a nucleating and antistatic additive						
	C7079-25RNA	25	155,000	1,069	NB	NB	3,200	22
		Consistent processability, excellent toughness, good surface gloss						
	TI6350WV	35	135,000	931	4.2	224	2,800	19
		Superior low temperature impact, nucleated, antistatic additive						
	C719-35RNHP	35	155,000	1,069	3.5	187	3,000	21
		High impact, contains nucleating agent						
	TI4340L2	35	200,000	1,379	1.4	75	4,000	28
		Good balance of stiffness and impact strength, excellent organoleptic properties, ultra violet stabilization						
	TI4350P	35	200,000	1,379	1.4	75	4,000	28
		Good balance of stiffness and impact strength, excellent organoleptic properties, high melt flow						
TI4355W2	35	200,000	1,379	1.4	75	4,000	28	
	Good balance of stiffness and impact strength, excellent organoleptic properties, antistatic additive							
TI4360P3	35	210,000	1,448	1.4	75	3,700	26	
	Good balance of stiffness and impact strength, excellent organoleptic properties							
C700-35N	35	220,000	1,517	1.2	64	4,000	28	
	Good mold fillability, high stiffness, fast set-up, contains a nucleating agent							
C7100-50NA	50	140,000	966	2.3	123	3,200	22	
	Freezer temperature impact resistance, high flow processing ease, easy mold release, fast cycle time, good organoleptic properties, contains nucleating and antistatic additives							
TI6550WV	55	190,000	1,310	1.8	96	3,400	23	
	High melt flow, good low temperature impact, nucleated, good mold release, antistatic additive							
TI4700P2	70	180,000	1,241	1.2	64	3,900	27	
	High stiffness, nucleated							
TI6800WV	80	155,000	1,069	2.3	123	3,000	21	
	Nucleated, excellent mold release, high impact properties							
C758-80NA	80	200,000	1,379	1.4	75	3,730	26	
	Good mold fillability with good balance of impact strength and stiffness, contains a nucleating and antistatic additive							



Injection Molding

Injection Molding - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)		
ASTM Method		D1238	D790A		D256A		D638		
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa	
HOMO	F006EC2	0.5	200,000	1,379	1.3	69	4,900	34	
	Excellent long term heat aging								
	H521	3.6	240,000	1,655	0.7	37	5,400	37	
	General purpose, low water carryover								
	D115A	11	230,000	1,586	0.5	27	5,200	36	
	Multipurpose, good color and process stability								
	FT120W2	12	230,000	1,586	0.6	32	5,400	37	
	Antistatic, good mold release								
	FT120WB2	12	230,000	1,586	0.6	32	5,400	37	
	Superior antistatic properties, excellent mold release								
	FT120WV	12	240,000	1,655	0.7	37	5,600	38	
	Antistatic, nucleated, good mold release								
	F180A	17	220,000	1,517	0.7	37	5,100	35	
	Multipurpose, suitable for a wide range of applications								
	FT200WV	20	255,000	1,759	0.7	37	5,600	39	
	Good mold release, nucleated, excellent rigidity and hardness								
ZS-751	22	270,000	1,862	0.4	21	5,500	38		
Superior stiffness, excellent mold release, nucleated									
FPT300F	30	200,000	1,379	0.7	37	4,800	33		
Good mold release, excellent part finish (low bloom)									
CP360H	34	170,000	1,172	0.4	21	4,700	32		
Narrow molecular weight distribution, low smoke/condensate									
CP350WV	35	240,000	1,655	0.5	27	5,500	38		
Narrow molecular weight distribution, antistatic, nucleated, good mold release									
FPT350WV3	35	240,000	1,655	0.5	27	5,500	38		
Narrow molecular weight distribution, antistatic, nucleated, very good mold release									
5E16S	40	195,000	1,345	0.5	27	4,600	32		
Good processability, contains antistatic additive									
HCHP	F1000HC	115	300,000	2,068	0.3	16	5,950	41	
Very high flexural modulus, high melt flow									



Thermoforming

Thermoforming - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa
HOMO	INSPIRE 6021N	2.0	255,000	1,759	0.6	32	5,500	37
	High performance nucleated homopolymer with good physical properties							
HOMO	INSPIRE 6023N	2.0	255,000	1,759	0.6	32	5,500	37
	High performance nucleated homopolymer with good physical properties							
HCHP	INSPIRE 6025N	2.5	300,000	2,068	0.7	37	5,700	40
	High performance, high crystalline nucleated homopolymer with exceptional stiffness and good optical properties							
HECO	INSPIRE 114	0.5	215,000	1,483	NB	NB	4,350	30
	High melt strength, high toughness, excellent processability, high heat resistance, designed for large part thermoforming							
	TI4015F	1.6	175,000	1,207	NB	NB	3,800	26
	Superior balance of stiffness and impact strength							
	PRISMA 6810	2.0	190,000	1,310	NB	NB	4,300	30
	Next generation clear impact copolymer designed for a great balance of stiffness, toughness, and clarity							
	TI4020N	2.0	220,000	1,517	NB	NB	4,000	28
Exceptionally high Izod impact, excellent low temperature drop impact, good organoleptic properties, nucleated								
HECO	TI6035NB	3.8	115,000	793	NB	NB	3,100	22
	Exceptionally high Izod impact, superior low temperature drop impact							
HECO	TI4040WT	4.0	205,000	1,414	3.5	187	4,400	30
	Superior drop impact at refrigeration temperatures, very high flexural modulus, nucleated, good mold release							
RACO	RP650	2.0	170,000	1,172	1.2	64	4,600	32
	High flexural modulus, superior aesthetics and enhanced clarity and optical properties							

Compounding



Compounding - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
		ASTM Method	D790A		D256A		D638	
		Units	g/10'	psi	Mpa	ft-lb/in	J/m	psi
HOMO	F006EC2	0.5	200,000	1,379	1.3	69	4,900	34
		Enhanced long term heat aging						
	F008F	0.8	190,000	1,310	0.8	43	5,200	36
		High melt strength, excellent rigidity						
	H521	3.6	240,000	1,655	0.7	37	5,400	37
		General purpose, low water carryover						
	D040A	4.2	230,000	1,586	0.7	37	5,400	37
		Injection molding, wet and dry long term heat aging						
	D080T	8.0	230,000	1,586	0.6	32	5,400	37
		Multipurpose, suitable for a wide range of applications						
	D115A	11	230,000	1,586	0.5	27	5,200	36
		Multipurpose, good color and process stability						
	F180A	17	220,000	1,517	0.7	37	5,100	35
		Multipurpose, suitable for a wide range of applications						
CP360H	34	170,000	1,172	0.4	21	4,700	32	
	Narrow molecular weight distribution, low smoke/condensate							
FP650WV	65	240,000	1,655	0.3	16	5,500	38	
	Excellent Processability, nucleated							
CP1000A	100	180,000	1,241	0.3	16	4,700	32	
	High melt flow grade with enhanced long term heat aging properties							
CP1200B	126	180,000	1,241	0.3	16	4,700	32	
	Multipurpose, suitable for a wide range of applications, high melt flow							

Compounding - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa
High Melt Strength Grades	TI4003F	0.3	210,000	1,448	NB	NB	4,200	29
		Extra high Izod impact, very high flexural modulus, good low temperature drop impact						
	INSPIRE 114	0.5	215,000	1,483	NB	NB	4,350	30
		High melt strength, high toughness, excellent processability, high impact, high heat resistant						
	F006EC2	0.5	200,000	1,379	1.3	69	4,900	34
		Enhanced long term heat aging						
Amppleo 1025MA	2.5	330,000	2,276	0.7	37	6,000	41	
	High melt strength, excellent processability, enhanced foamability, and very good mechanical properties							
HCHP	INSPIRE 6025N	2.5	300,000	2,068	0.7	37	5,760	40
		High performance, high crystalline homopolymer with exceptional stiffness and good optical properties						
	D218_00	8.0	315,000	2,171	0.7	37	5,800	40
		Contains antiblock and nucleating additives, high flexural modulus						
	F350HC2	35	300,000	2,068	0.4	21	6,000	41
		Very high flexural modulus, high melt flow						
F1000HC	115	300,000	2,068	0.3	16	5,950	41	
	Very high flexural modulus, high melt flow							
High Crystalline HECO	TI2150C	15	235,000	1,620	1.5	80	4,600	32
		Highly crystalline homopolymer phase, very high molecular weight EPR phase, very high flexural modulus, reduced emissions, reduced gels						
	TI2350C	40	235,000	1,620	1.0	53	4,600	32
		Highly crystalline homopolymer phase, very high molecular weight EPR phase, very high flexural modulus, reduced emissions, reduced gels						
	TI2600C	66	235,000	1,620	0.9	48	4,900	34
		Highly crystalline homopolymer phase, very high molecular weight EPR phase, very high flexural modulus, reduced emissions, reduced gels						
	TI2900C	110	235,000	1,620	0.7	37	4,900	34
Highly crystalline homopolymer phase, very high molecular weight EPR phase, very high flexural modulus, reduced emissions, reduced gels								
T17900C	120	240,000	1,655	0.7	37	4,800	33	
	Highly crystalline homopolymer phase, high molecular weight EPR phase, very high flexural modulus, reduced emissions, reduced gels							
TI71000M	120	260,000	1,793	0.7	37	4,900	34	
	Highly crystalline homopolymer phase, high molecular weight EPR phase, very high flexural modulus, nucleated, reduced emissions, reduced gels							

Compounding - Typical Properties

Family	Grade	Melt Flow (230°C, 2.16 kg)	Flexural Modulus (0.05 in/min, 1% secant)		Notched Izod Impact Strength @ 23°C		Tensile Strength @ Yield (2 in/min)	
ASTM Method		D1238	D790A		D256A		D638	
Units		g/10'	psi	Mpa	ft-lb/in	J/m	psi	Mpa
HECO	TI4005P2	0.5	210,000	1,448	NB	NB	4,200	29
		Exceptionally high Izod impact, very high flexural modulus, good low temperature drop impact, nucleated						
	TI4007G	0.7	175,000	1,207	NB	NB	4,200	29
		Exceptionally high Izod impact, superior low temperature drop impact						
	TI6035NB	3.8	140,000	966	NB	NB	3,100	21
		Exceptionally high Izod impact, superior low temperature drop impact						
	TI4040WT	4.0	205,000	1,414	3.5	187	4,400	30
		Superior drop impact at refrigeration temperatures, very high flexural modulus, nucleated, good mold release						
	KN-501	8.0	170,000	1,172	2.5	133	3,700	26
		Excellent color and process stability, excellent long term heat aging properties, wet/dry environment resistance						
	TI6120Q4	12.0	115,000	793	NB	NB	2,750	19
		Exceptionally high Izod impact, superior low temperature drop impact, good paint adhesion						
	CSP120NA	12.5	165,000	1,138	NB	NB	3,300	23
		Excellent balance of toughness and stiffness, unique dimensional stability, and excellent flow properties						
	C702-20	18	150,000	1,034	3.5	187	3,000	21
		High impact, suitable for a wide range of injection molded applications						
	TI6200Q4	20	115,000	793	NB	NB	2,850	20
		Exceptionally high Izod impact, superior low temperature drop impact, good paint adhesion						
	C7079-25RNA	25	155,000	1,069	NB	NB	3,200	22
		Consistent processability, excellent toughness, good surface gloss						
	TI8300C	30	135,000	931	NB	NB	2,700	19
		Exceptionally high Izod impact, superior low temperature drop impact, good paint adhesion						
	C700-35N	35	220,000	1,517	1.2	64	4,000	28
		Good mold fillability, high stiffness, fast set-up, contains a nucleating agent						
TI6350WV	35	135,000	931	4.2	224	2,800	19	
	Superior low temperature impact, nucleated, antistatic additive							
TI4340L2	35	200,000	1,379	1.4	75	4,000	28	
	Good balance of stiffness and impact strength, excellent organoleptic properties, ultra-violet stabilization							
TI4350P	35	200,000	1,379	1.4	75	4,000	28	
	Good balance of stiffness and impact strength, excellent organoleptic properties, high melt flow							
TI4355W2	35	200,000	1,379	1.4	75	4,000	28	
	Good balance of stiffness and impact strength, excellent organoleptic properties, antistatic additive							
TI4360P3	35	210,000	1,448	1.4	75	3,700	26	
	Good balance of stiffness and impact strength, excellent organoleptic properties							
C7100-50NA	50	140,000	966	2.3	123	3,200	22	
	Freezer Temperature Impact Resistance, High Flow Processing Ease, Easy Mold Release, Fast Cycle Time, Good Organoleptic Properties, Contains Nucleating and Antistatic Additives							
TI4700P2	70	180,000	1,241	1.2	64	3,900	27	
	High stiffness, nucleated							
TI6800WV	80	155,000	1,069	2.3	123	3,000	21	
	Nucleated, excellent mold release, high impact properties							
TI4900M	115	210,000	1,448	0.7	37	4,300	30	
	Very high flexural modulus, high melt flow							



Every day, Braskem's 8,000 team members work to improve people's lives through sustainable solutions in chemistry and plastics and engage with partners throughout the value chain to advance the circular economy.

With 41 industrial units in Brazil, United States, Mexico and Germany, net revenue of R\$58 billion (US\$15.8 billion) and exports to around 100 countries, Braskem produces annually over 20 million tons of plastic resins and chemical products.

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