

# Line Card

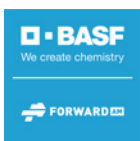
Supporting our customers in their adoption of additive manufacturing

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## OUR SUPPLIERS



# FILAMENTS FOR ADDITIVE MANUFACTURING

## Our products in EMEA

Plastic Type	Grade	Brand	Thermal Properties	Tensile Strength	Tensile Modulus	Additional Information
ABS	Ultrafuse® ABS Fusion+	BASF	96°C ISO75 <sup>1</sup>	28 MPa	1445 MPa	Low Warping
PA12	Jabil PA 4035 CF	Jabil	154°C DMA <sup>4</sup>	66 MPa	6000 MPa	ESD Safe
PA6	Jabil PA 4500	Jabil	62°C DMA <sup>4</sup>	56 MPa	1930 MPa	High Elongation at Break
	Jabil PA 4535 CF	Jabil	162°C DMA <sup>4</sup>	88 MPa	10600 MPa	ESD Safe
	Ultrafuse® GF30-PA6	BASF	124°C ISO75 <sup>2</sup>	78 MPa	5036 MPa	-----
PA6/66	Addigy® F1030	Covestro	84°C ISO75 <sup>1</sup>	46 MPa	2330 MPa	Food Contact -FDA Regulation 21 CFR
	Addigy® F1030 CF10	Covestro	184°C ISO75 <sup>1</sup>	110 MPa	7630 MPa	-----
	Addigy® F1030 FR	Covestro	-- --	57 MPa	3500 MPa	Flame Retardant: UL94 V-0 at 1.6mm; UL Blue Card
	Addigy® PA6/66-GF20 FR LS	Covestro	168°C ISO75 <sup>1</sup>	53 MPa	4876 MPa	Flame Retardant: UL94 V-0 at 3.2mm; Fire Testing to Railway Components: EN 45545-2 R22/R23 (HL3)
PA/PK	Jabil PA 0600	Jabil	103°C DMA <sup>4</sup>	49 MPa	2660 MPa	Low Coefficient of Friction
PAHT	Luvocom 3F PAHT® 9825	Lehvoss	120°C 200h <sup>3</sup>	82 MPa	3100 MPa	Very Low Warping
	Luvocom 3F PAHT® 9936	Lehvoss	120°C 200h <sup>3</sup>	78 MPa	3400 MPa	Very Low Warping Optimized Surface Appearance
	Ultrafuse® PAHT CF15	BASF	145°C ISO75 <sup>1</sup>	103 MPa	8386 MPa	ESD Safe
	Luvocom 3F PAHT® CF 9891	Lehvoss	160°C 200h <sup>3</sup>	130 MPa	11500 MPa	Electrical Properties
	Luvocom 3F PAHT® KK 50056 FR	Lehvoss	120°C 200h <sup>3</sup>	55 MPa	6000 MPa	Flame Retardant: UL94 V-0 at 1.5mm Fire Testing to Railway Components: EN45545-2 R22/R23 HL3
PC	Ultrafuse® GF30 PC	BASF	137°C ISO75 <sup>2</sup>	65 MPa	5400 MPa	Flame Retardant: UL94 V-0 at 3.0mm Fire Testing to Railway Components: EN45545-2 R22/R23/R24/R26 HL1-3
PC-ABS	Ultrafuse® PC ABS FR	BASF	86°C ISO75 <sup>1</sup>	50 MPa	2545 MPa	Flame Retardant: UL94 V-0 at 1.5mm Fire Testing to Railway Components: EN45545-2 R26 HL1-3
PET	Ultrafuse® PET	BASF	63°C ISO75 <sup>1</sup>	33 MPa	1933 MPa	Food Contact -FDA Regulation 21 CFR
	Ultrafuse® rPET	BASF	71°C ISO75 <sup>1</sup>	39 MPa	1640 MPa	Made of Recycled Material
	Ultrafuse® PET CF 15	BASF	108°C ISO75 <sup>1</sup>	63 MPa	6178 MPa	-----
	Luvocom 3F PET CF 9780	Lehvoss	125°C 200h <sup>3</sup>	80 MPa	9000 MPa	Very Low Warping
PETG	Jabil PETg 0800 ESD	Jabil	67°C DMA <sup>4</sup>	39 MPa	1895 MPa	ESD Safe
PLA	Ultrafuse® PLA Pro	BASF	-- --	48 MPa	3166 MPa	Biocompatibility Certificate
PP	FL105PP	Braskem	93°C ASTM648 <sup>1</sup>	11 MPa	1020 MPa	Low Warping
	FL500PP-GF	Braskem	154°C ASTM648 <sup>1</sup>	46 MPa	5200 MPa	Improved Impact Strength
	Ultrafuse® GF30 PP	BASF	127°C ISO75 <sup>1</sup>	42 MPa	2628 MPa	Improved UV Resistance
	FL900PP-CF	Braskem	158°C ASTM648 <sup>1</sup>	41 MPa	6380 MPa	100% Recycled Carbon Fiber
PP/PE	FL605R-CF	Braskem	122°C ASTM648 <sup>1</sup>	25 MPa	3900 MPa	90% Recycled Content
PE	FL300PE	Braskem	66°C ASTM648 <sup>1</sup>	19 MPa	752 MPa	-----
PEEK	KetaSpire MS NT1	Solvay	240°C 200h <sup>3</sup>	85 MPa	3120 MPa	Inherent Flame Retardant
	KetaSpire CF10 LS1	Solvay	240°C 200h <sup>3</sup>	140 MPa	11000 MPa	Inherent Flame Retardant

(1) 0.45 MPa HDT B

(2) 1.82 MPa HDT A Values

(3) Service Temperature

During Lifetime (max. 200h)

(4) Dynamic Mechanical Analysis

Carbon Fiber

Glass Fiber

Halogen Free






Recycled Material

Eco Friendly

High Temperature Machinery Required

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Plastic Type	Grade	Brand	Thermal Properties	Tensile Strength	Tensile Modulus	Additional Information
PEI	AMS31F-100	Sabic				Support Filament
	ULTEM™ AM9085F	 Sabic	175°C ASTM648 <sup>2</sup>	80 MPa	2555 MPa	Fire Testing to Railway Components: EN 45545-2 R6 (HL1, HL2, HL3)
	ULTEM™ AM1010F	 Sabic	211°C ASTM648 <sup>2</sup>	80 MPa	2865 MPa	Flame Retardant: UL94 V-0 at 1.5mm
	LUVOCOM® 3F PEI 50236 GY	Lehvoss	200°C ISO75 <sup>2</sup>	105 MPa	3500 MPa	Flame Retardant: UL94 V-0 at 0.4mm; Fire Testing to Railway Components: EN 45545-2 R1 (HL3) from 2mm
PPS	Luvocom 3F PPS CF 9938	 Lehvoss	240°C 200h <sup>3</sup>	120 MPa	--	Flame Retardant: UL94 V-0 at 0.4mm; Fire Testing to Railway Components: EN 45545-2 R22, R23 (HL3)
PPSU	Radel MS NT1	 Solvay	207°C ISO75 <sup>1</sup>	62 MPa	2000 MPa	Biocompatibility Certificate Inherent Flame Retardant
	Ultrafuse® PPSU	 BASF	215°C ISO75 <sup>1</sup>	75 MPa	2221 MPa	Flame Retardant: UL94 V-0 at 1.5mm Fire Testing to Railway Components: EN45545-2 R7/R23/R24/R26 HL3
PVDF	Solef PVDF MSC NT 1	Solvay	120°C 200h <sup>3</sup>	30 MPa	800 MPa	Inherent Flame Retardant Outstanding UV Resistance

(1) 0.45 MPa HDT B

(2) 1.82 MPa HDT A Values

(3) Service Temperature During Lifetime (max. 200h)

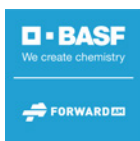
ELASTOMERS		Brand	Shore	Tensile Strength	Elongation	Compression Set	Additional Information
TPC	Addigy® F2045	 Covestro	34D/85A	8 MPa	350%	--	Biocompatibility Certificate High UV and Chemical Resistance
	Addigy® F2060 HT	Covestro	61D/98A	35 MPa	510%	--	Prolonged High Temperature Performance: 175°C (1,000 hrs), 190°C (500 hrs)
TPE	Ultrafuse® TPS 90A	BASF	29D/89A	7 MPa	280%	75% <sup>4</sup> ISO 815-1	Biocompatibility Certificate
TPU	Ultrafuse® TPU 85A	BASF	29D/85A	34 MPa	600%	26% <sup>4</sup> ISO 815-1	Biocompatibility Certificate
	Ultrafuse® TPU 64D	BASF	58D	37 MPa	399%	25% <sup>4</sup> ISO 815-1	Biocompatibility Certificate
	Ultrafuse® TPU 95A	BASF	45D/92A	44 MPa	661%	38% <sup>4</sup> ISO 815-1	Biocompatibility Certificate

(4) Compression Set at 23°C, 72 h

METALS	Brand	Sintered Part Density	Tensile Strength	Elongation	Vickers Hardness
Ultrafuse® 17-4 PH	BASF	7850 kg/m <sup>3</sup>	1319 MPa	7%	426 HV10
Ultrafuse® 316L	BASF	7600 kg/m <sup>3</sup>	561 MPa	53%	128 HV10
Ultrafuse® Support Layer	BASF				

 Carbon Fiber  Glass Fiber  Halogen Free  Recycled Material  Eco Friendly  High Temperature Machinery Required

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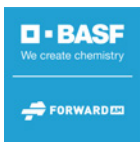
# PHOTOPOLYMERS FOR ADDITIVE MANUFACTURING

## Our products in EMEA

								Wavelength		
Characteristics	Grade	Brand	HDT (0.45MPa)	Tensile Strength	Elongation	Certificate	355 nm	385 nm	405 nm	
ABS-like	Somos® GP Plus 14122	Covestro	46°C ASTM648	37 MPa	8%	-----	●			
	Somos® WaterShed Black	Covestro	50°C ASTM648	50 MPa	16%	-----	●			
High Temperature	Somos® PerFORM	Covestro	268°C ASTM648	80 MPa	1%	-----	●			
	Somos® PerFORM Reflect	Covestro	276°C ASTM648	72 MPa	1%	-----	●			
	Somos® ProtoTherm 12120	Covestro	126°C ASTM648	77 MPa	5%	-----	●			
Transparent	Somos® WaterShed XC 11122	Covestro	50°C ASTM648	50 MPa	16%	-----	●			
	Somos® BioClear	Covestro	50°C ASTM648	50 MPa	16%	-----	●			
	Somos® WaterClear Ultra 10122	Covestro	47°C ASTM648	56 MPa	8%	-----	●			
Rigid	Ultracur3D® RG 35	BASF	83°C ASTM648	80 MPa	6%	Flame Retardant: UL94 HB at 1.5mm BiocoMPatibility: ISO 10993	●	●	●	
	Ultracur3D® RG1100	BASF	116°C ASTM648	70 MPa	5%	Flame Retardant: UL94 HB at 1.5mm		●	●	
Higher Toughness	Ultracur3D® ST 80	BASF	46°C ASTM648	35 MPa	20%	BiocoMPatibility: ISO10993	●	●	●	
	Ultracur3D® ST45	BASF	73°C ASTM648	60 MPa	25%	Flame Retardant: UL94 HB at 1.5mm BiocoMPatibility: ISO 10993	●	●	●	
	Ultracur3D® ST 1400	BASF	57°C ASTM648	45 MPa	43%	BiocoMPatibility: ISO 10993	●	●	●	
	Somos® EvoLve 128	Covestro	52°C ASTM648	57 MPa	11%	-----	●			
	Somos® Next	Covestro	56°C ASTM648	42 MPa	9%	-----	●			
	Somos® Taurus	Covestro	91°C ASTM648	49 MPa	24%	-----	●			

								Wavelength		
Characteristics	Grade	Brand	HDT (0.45MPa)	Tensile Strength	Elongation	Certificate	355 nm	385 nm	405 nm	
Elastomeric	Ultracur3D® EL 150	BASF	-- --	7 MPa	182%	BiocoMPatibility: ISO 10993		●	●	
	Ultracur3D® EL 60	BASF	-- --	9 MPa	95%	BiocoMPatibility: ISO 10993	●	●	●	
Flexible	Ultracur3D® FL 60	BASF	-- --	4 MPa	90%	-----		●	●	

## OUR SUPPLIERS



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# PELLETS FOR ADDITIVE MANUFACTURING

Our products in EMEA

Specially designed for additive manufacturing

Plastic Type	Grade	Brand	Thermal Properties		Tensile Strength	Tensile Modulus	Additional Information
ABS	Neviprint ABS 3801	Nexeo	90°C	ISO75 <sup>2</sup>	45 MPa	2500 MPa	General Purpose
PAHT	LUVOCOM® 3F PAHT 9936 BK L	Lehvoss	120°C	200h <sup>3</sup>	78 MPa	3400 MPa	Optimized Surface Appearance
	LUVOCOM® 3F PAHT 50588 BL L	Lehvoss	--	--	83 MPa	3800 MPa	Food Contact and Magnetically Detectable
	LUVOCOM® 3F PAHT KK 50056 BK FR <b>HF</b>	Lehvoss	120°C	200h <sup>3</sup>	55 MPa	6000 MPa	Flame Retardant: UL94 V-0 at 0.4mm; Fire Testing to Railway Components: EN 45545-2 R22/R23 (HL3)
	LUVOCOM® 3F PAHT CF 9891 BK <b>CF15</b>	Lehvoss	160°C	200h <sup>3</sup>	120 MPa	10500 MPa	Electrical Properties
	LUVOCOM® 3F PAHT CF 9743 BK <b>CF25</b>	Lehvoss	180°C	200h <sup>3</sup>	250 MPa	28000 MPa	Electrical Properties
PLA	Luminy® LX175	Total Corbion	60°C	ISO75 <sup>1</sup>	45 MPa	3500 MPa	General Purpose
	Luminy® LX175 RMB20	Total Corbion	60°C	ISO75 <sup>1</sup>	45 MPa	3500 MPa	20% Recycled Content
	Luminy® L175	Total Corbion	105°C	ISO75 <sup>1</sup>	50 MPa	3500 MPa	High Heat
	Luminy® L175 RMB20	Total Corbion	105°C	ISO75 <sup>1</sup>	50 MPa	3500 MPa	20% Recycled Content
	Luminy® LX975	Total Corbion	60°C	ISO75 <sup>1</sup>	40 MPa	3500 MPa	Very Low Warping
	Luminy® LX975 RMB20	Total Corbion	60°C	ISO75 <sup>1</sup>	40 MPa	3500 MPa	20% Recycled Content
	LUVOCOM® 3F PLA 50593 WT	Lehvoss	75°C	ISO75 <sup>1</sup>	40 MPa	4300 MPa	Optimized Thermal Resistance
PPS	LUVOCOM® 3F PPS CF 9938 BK <b>CF15</b>	Lehvoss	240°C	200h <sup>3</sup>	120 MPa	11000 MPa	Flame Retardant: UL94 V-0 at 0.4mm; Fire Testing to Railway Components: EN 45545-2 R22/R23 (HL3)
PEEK	LUVOCOM® 3F PEEK 9581 NT	Lehvoss	145°C	ISO75 <sup>2</sup>			Inherent Flame Retardant
	LUVOCOM® 3F PEEK CF 9676 BK <b>CF15</b>	Lehvoss	280°C	ISO75 <sup>2</sup>			Inherent Flame Retardant
PEI	LUVOCOM® 3F PEI 50236 GY	Lehvoss	200°C	ISO75 <sup>2</sup>	105 MPa	3500 MPa	Flame Retardant: UL94 V-0 at 0.4mm; Fire Testing to Railway Components: EN 45545-2 R1 (HL3) from 2mm
PEKK	LUVOCOM® 3F PEKK 50082 NT	Lehvoss	300°C	200h <sup>3</sup>	90 MPa	3000 MPa	Flame Retardant: UL94 V-0 at 1.6mm
PET	LUVOCOM® 3F eco PET 50291 BK	Lehvoss	125°C	200h <sup>3</sup>	55 MPa	3000 MPa	90% Recycled Content
PC/ABS	LUVOTECH® 3F eco PCABS GF 1614 BK <b>CF35</b>	Lehvoss			103 MPa	10000 MPa	Low Warping
PP	3D S50 Flex K <b>WF50</b>	StoraEnso	--	--	30 MPa	2700 MPa	Wood Fiber Reinforced
	3D Ocean S50 Flex K <b>WF50</b>	StoraEnso	--	--	33 MPa	2800 MPa	Wood Fiber Reinforced and Recycled Polymer
	GR105PP	Braskem	93°C	D648 <sup>5</sup>	16 MPa	1245 MPa	General Purpose
	GR500PP-GF <b>GF25</b>	Braskem	154°C	D648 <sup>5</sup>	46 MPa	5200 MPa	Improved Impact Strength
	GR900PP-CF <b>CF30</b>	Braskem	158°C	D648 <sup>5</sup>	41 MPa	6380 MPa	100% Recycled Carbon Fiber
PP/PE	GR605R-CF <b>CF10</b>	Braskem	122°C	D648 <sup>5</sup>	25 MPa	3900 MPa	90% Recycled Content
TPU	LUVOCOM®	Lehvoss	110°C	200h <sup>3</sup>	24 MPa	220% <sup>4</sup>	ESD Safe

(1) 0.45 MPa HDT B  
 (2) 1.82 MPa HDT A Values  
 (3) Service Temperature During Lifetime (max. 200h)

(4) Elongation at break  
 (5) Deflection Temperature Under Flexural Load

**CF** Carbon Fiber    **GF** Glass Fiber    **WF** Wood Filled    **HF** Halogen Free  
 Eco Friendly    Recycled Material    High Temperature Machinery Required

## OUR SUPPLIERS



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# POWDERS FOR ADDITIVE MANUFACTURING

## Our products in EMEA

### Jabil PK5000

**A perfect balance of key mechanical properties resulting in a polymer that's strong, tough and ductile**

This material features a unique combination of chemical and mechanical properties. Our engineered powder, which is based on PolyKetone, is an eco-friendly and non-toxic polymer made from carbon monoxide and olefins.



Avantatges	Material Properties
<ul style="list-style-type: none"> <li>• Improved impact strength over PA 12 SLS and similar nylon materials</li> <li>• POM like coefficient of friction and feel</li> <li>• Very low moisture absorption</li> <li>• Dimensional stable</li> <li>• Excellent chemical resistance</li> <li>• Very good elongation properties</li> <li>• Wide processing window with similar processing parameters to PA 12 SLS</li> <li>• Low carbon footprint</li> <li>• Low temperature impact strength</li> <li>• Excellent chemical resistance</li> <li>• Physical properties and dimensional stability are not significantly affected by moisture</li> </ul>	<ul style="list-style-type: none"> <li>• Tensile strength: 53 MPa</li> <li>• Young's modulus: 1349 MPa</li> <li>• Elongation at break: 41 %</li> <li>• Izod impact unnotched: 95 kJ/m<sup>2</sup></li> <li>• HDT B (0.45 MPa): 157 °C</li> </ul>



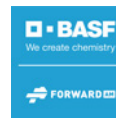
### Ultrasint® AP26

**Zero waste material with affordable cost and high detail resolution enabling industrial applications**

The new Ultrasint® AP26 is a Polybutylene terephthalate (PBT), is a high-strength, thermoplastic material commonly used in traditional injection-molded electronic auto parts due to its electronic insulation and solvent resistance. Its eco-friendliness having very stable mechanics while using 100% of reused material, resulting in zero powder waste.



Avantatges	Material Properties
<ul style="list-style-type: none"> <li>• Up to 100% of reusability rate – Zero waste!</li> <li>• Exceptional detail resolution</li> <li>• Excellent surface finish</li> <li>• Lowest price per kg in the PBF portfolio</li> <li>• High process stability</li> <li>• Easy finishing incl. smoothing, dyeing and coating</li> <li>• Color – Cream</li> </ul>	<ul style="list-style-type: none"> <li>• Tensile strength: 40 MPa</li> <li>• Young's modulus: 2500 MPa</li> <li>• Elongation at break: 2,5 %</li> <li>• Charpy impact unnotched: 12 kJ/m<sup>2</sup></li> <li>• HDT B (0.45 MPa): 94 °C</li> </ul>



### Luvosint PA12 9270 BK

**As a black colored Polyamide 12 powder LUVOSINT PA12 9270 BK is perfectly suitable for automotive applications but also for industrial manufacturing of black components in general.**

In addition, LUVOSINT PA12 9270 BK material is a sustainable improvement of current PA12 materials in the market. It can be recycled entirely in the following print jobs. This avoids waste and makes PA12 laser sintering much more cost effective.

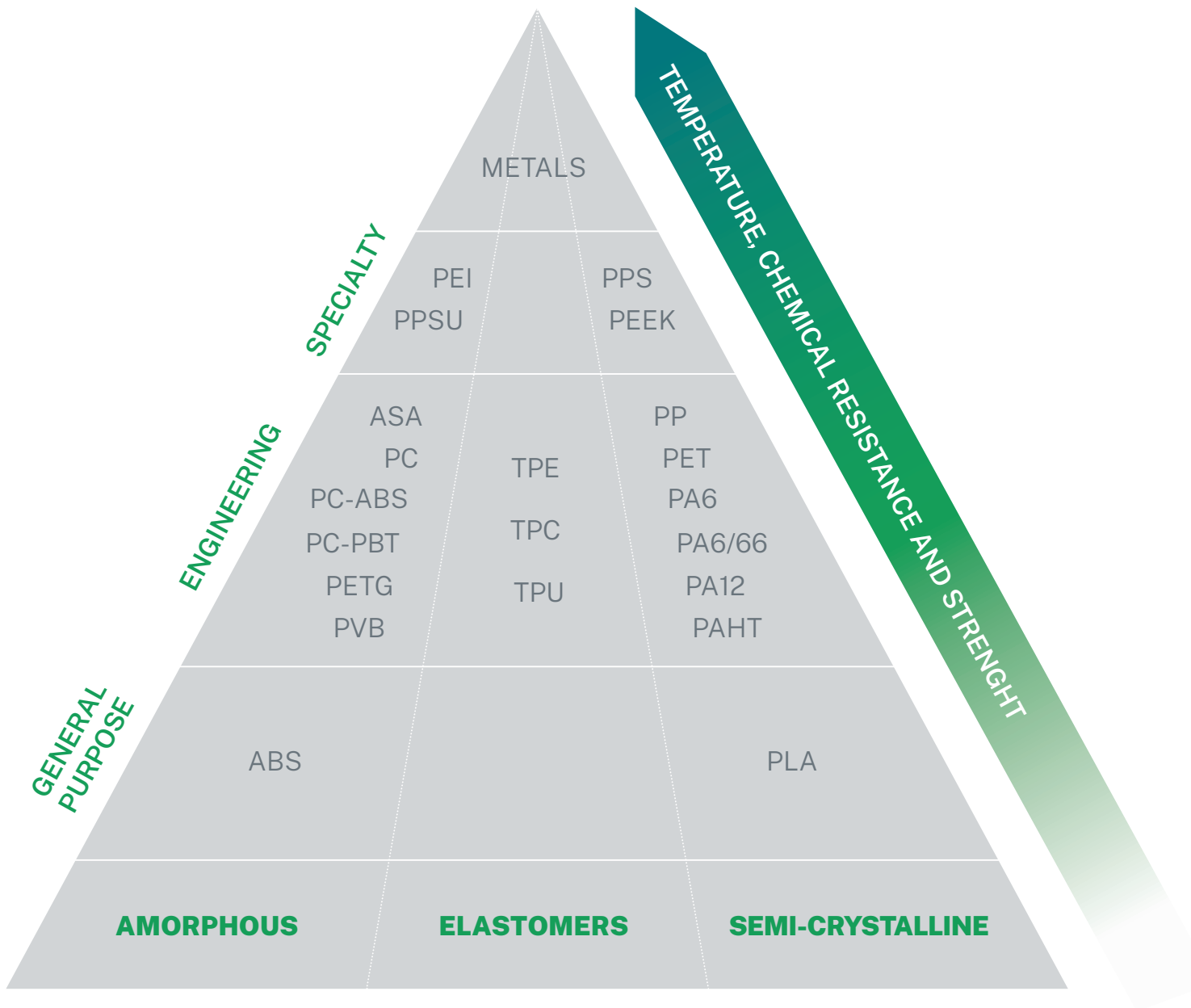


Avantatges	Material Properties
<ul style="list-style-type: none"> <li>• High molecular weight offers strong mechanic performance (&gt; 50 MPa).</li> <li>• Colored (compounded) truly black, perfect for automotive.</li> <li>• 100 % recyclability, no used powders for disposal.</li> <li>• Improved post processing due to high mechanical performance level.</li> <li>• Cryogenically milled powder.</li> <li>• Cost effective.</li> </ul>	<ul style="list-style-type: none"> <li>• Tensile strength: 49 MPa</li> <li>• Young's modulus: 1810 MPa</li> <li>• Elongation at break: 9 %</li> <li>• Charpy impact unnotched: 12 kJ/m<sup>2</sup></li> <li>• HDT B (0.45 MPa): 95 °C</li> </ul>



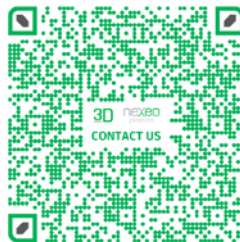
# MATERIALS PYRAMID

Designed for additive manufacturing



## Have a technical question?

Contact us today to see how we can help!



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The logo consists of the characters '3D' in a bold, green, sans-serif font. A horizontal line is positioned below the '3' and the 'D', extending slightly beyond the 'D' on both sides.The logo features the word 'nexeo' in a green, lowercase, sans-serif font with a registered trademark symbol (®) at the end. Below it, the word 'plastics' is written in a smaller, black, lowercase, sans-serif font. A vertical line is positioned to the left of the text.