



TYPICAL PROPERTIES	TEST STANDARD	UNITS S.I.	ML-1130	ML-1140	ML-1150	ML-1160	ML-1170	ML-1180	ML-1190	ML-1140D
<b>DENSITY</b>	ISO 1183	kg/m³	1190	1180	1190	1180	1190	1190	1190	1200
<b>HARDNESS (5 SEC DELAY)</b> Injection molded sample	ISO 868	Shore A or D	27A	42A	54A	63A	72A	79A	88A	37D
<b>TENSILE PROPERTIES</b>										
<b>Flow direction</b>										
Tensile strength at break	ISO 37	MPa	2.1	3.4	4.2	4.7	5.5	6.3	7.8	9.4
Modulus at 100% elongation		MPa	1.0	1.2	1.6	2.0	2.8	3.4	5.1	6.8
Elongation at break		%	465	752	739	723	676	634	554	497
<b>Cross flow direction</b>										
Tensile strength at break		MPa	3.3	4.3	4.9	5.2	5.9	6.4	6.8	8.2
Modulus at 100% elongation		MPa	0.6	0.8	1.1	1.5	2.0	2.6	3.8	5.1
Elongation at break		%	855	894	862	823	775	726	597	551
<b>TEAR STRENGTH</b>										
<b>Cross flow direction</b>	ISO 34B									
Unnicked angle		kN/m	12	17	20	23	27	31	39	50
<b>COMPRESSION SET</b>										
22 hrs @ 23°C	ISO 815	%	15	22	25	29	35	37	42	46
22 hrs @ 70°C		%	39	37	43	46	53	53	64	64
70 hrs @ 90°C		%	71	69	69	75	77	77	74	75
<b>HOT AIR AGING</b>										
<b>Cross flow direction</b>										
<b>168 hrs @ 125°C</b>	ISO 188	pts	-3	0	1	1	4	3	2	2
Change in hardness		%	73	26	12	-10	2	-3	-2	-6
Change in tensile strength at break		%	-7	-4	-1	5	10	8	8	9
Change in modulus at 100% elongation		%	45	15	15	12	7	1	-5	-15
<b>1000 hrs @ 110°C</b>										
Change in hardness		pts	-2	-1	1	1	3	2	2	4
Change in tensile strength at break		%	70	23	8	12	5	-2	-4	-5
Change in modulus at 100% elongation		%	-2	3	3	10	10	10	8	10
Change in elongation at break		%	23	10	8	7	5	-1	-9	-16
<b>APPARENT SHEAR VISCOSITY</b> @ 206 1/s, 200°C	ISO 11443 Capillary	Pa.s	177	134	127	128	138	136	141	170

#### FEATURES

- General purpose molding grades
- Good balance of price and performance
- Available from 30 Shore A to 40 Shore D, in natural and black

#### TRANSPORTATION SEGMENTS

- Interior

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