

MRC Polymers MAXTEL,ç 600T30IM TPO, 30% Talc Filled

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO)

Material Notes:

For automotive exterior applicationsExcellent process ability and dimensional stabilityImpact ModifiedCan be UV StabilizedInternal and external lubricants can be addedInformation provided by MRC Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MRC-Polymers-MAXTEL-600T30IM-TPO-30-Talc-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ISO 1183
Filler Content	30 %	30 %	ISO 3451A
Linear Mold Shrinkage	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	ISO 294
Melt Flow	8.5 g/10 min @Load 2.16 kg, Temperature 230 Â°C	8.5 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	15sec dwell; ISO 868
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527
Flexural Strength	22.99 MPa	3335 psi	ISO 178
Flexural Modulus	1.35 GPa	196 ksi	ISO 178
Izod Impact, Notched (ISO)	38.0 kJ/mÂ²	18.1 ft-lb/inÂ²	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 Â°C @Thickness 3.17 mm	167 Â°F @Thickness 0.125 in	un-annealed; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	40.0 Â°C @Thickness 3.17 mm	104 Â°F @Thickness 0.125 in	un-annealed; ISO 75

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	182 - 204 Â°C	360 - 400 Â°F	
Middle Barrel Temperature	193 - 216 Â°C	380 - 420 Â°F	
Front Barrel Temperature	204 - 227 Â°C	400 - 440 Â°F	

Processing Properties	Metric	English	Comments
Melt Temperature	221 - 243 Â°C	430 - 470 Â°F	
Mold Temperature	21.1 - 32.2 Â°C	70.0 - 90.0 Â°F	
Drying Temperature	48.9 - 65.6 Â°C	120 - 150 Â°F	Usually not required
Dry Time	1 - 2 hour	1 - 2 hour	
Injection Pressure	48.3 - 55.2 MPa	7000 - 8000 psi	
Back Pressure	0.000 - 1.03 MPa	0.000 - 150 psi	
Cushion	0.635 cm	0.250 in	

Descriptive Properties	Value	Comments
Fill Rate	Slow to Moderate	
Screw Speed	Slow to Moderate	

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