

MRC Polymers MAXTEL,ç 600 GF20 TPO, 20% Glass Fiber Filled

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

Material Notes:

For automotive exterior applications. Excellent process ability and dimensional stability. Internal and external lubricants can be added. Can be UV Stabilized. Information provided by MRC Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MRC-Polymers-MAXTEL-600-GF20-TPO-20-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Filler Content	20 %	20 %	ASTM D5630
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D256

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7000 psi	ASTM D638
Flexural Strength	58.6 MPa	8500 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C @Thickness 3.17 mm	302 Â°F @Thickness 0.125 in	un-annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	130 Â°C @Thickness 3.17 mm	266 Â°F @Thickness 0.125 in	un-annealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 227 Â°C	410 - 440 Â°F	
Middle Barrel Temperature	210 - 227 Â°C	410 - 440 Â°F	
Front Barrel Temperature	210 - 227 Â°C	410 - 440 Â°F	
Nozzle Temperature	210 - 227 Â°C	410 - 440 Â°F	
Melt Temperature	221 - 260 Â°C	430 - 500 Â°F	
Mold Temperature	26.7 - 48.9 Â°C	80.0 - 120 Â°F	

Drying Temperature Processing Properties	82.2 Â°C Metric	180 Â°F English	Comments
Dry Time	4 hour	4 hour	
Dew Point	<= -17.8 Â°C	<= 0.000 Â°F	
Drying Air Flow Rate	22.7 - 28.3 l/min	0.800 - 1.00 ftÂ³/min (CFM)	per lb/hour resin processed
Injection Pressure	68.9 - 138 MPa	10000 - 20000 psi	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Cushion	0.330 - 0.635 cm	0.130 - 0.250 in	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

Descriptive Properties	Value	Comments
Fill Rate	Slow to Moderate	
Hold Pressure	40-60% of injection pressure	
Packing Pressure	50-75% of injection pressure	

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