

MRC Polymers MAXTEL™,ç 600-BK TPO, Black

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

Material Notes:

For automotive exterior applications. Excellent process ability and dimensional stability. Unfilled TPO Available in black and gray only Can be UV Stabilized Internal and external lubricants can be added Information provided by MRC Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MRC-Polymers-MAXTEL-600-BK-TPO-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.980 g/cc	0.980 g/cc	ISO 1183
Melt Flow	17 g/10 min @Load 2.16 kg, Temperature 230 Â°C	17 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	15sec dwell; ISO 868
Tensile Strength, Yield	16.0 MPa	2320 psi	ISO 527
Flexural Strength	22.0 MPa	3190 psi	ISO 178
Flexural Modulus	1.05 GPa	152 ksi	ISO 178
Izod Impact, Notched (ISO)	47.0 kJ/mÂ²	22.4 ft-lb/inÂ²	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Â°C @Thickness 3.17 mm	149 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	
Nozzle Temperature	216 - 238 Â°C	420 - 460 Â°F	
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

Processing Properties	Metric _{ur}	English _{ur}	Comments
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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