

Polyram Polytron P40B01 Homopolymer Polypropylene, Chemically Coupled 40% LGF

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

Material Notes:

A chemically coupled 40% LGF reinforced black PP, heat stabilized for high temperature applications such as under the hood automotive parts. Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-Polytron-P40B01-Homopolymer-Polypropylene-Chemically-Coupled-40-LGF.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM-D792
Linear Mold Shrinkage	0.0012 cm/cm	0.0012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	125 MPa	18100 psi	ASTM-D638
Elongation at Break	2.4 %	2.4 %	ASTM-D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM-D790
Flexural Strength	185 MPa	26800 psi	ASTM-D790
Flexural Modulus	8.20 GPa	1190 ksi	ASTM-D790
Izod Impact, Notched	2.00 J/cm @Temperature 23.0 °C	3.75 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	152 °C	306 °F	ASTM-D648
Flame Spread	22 mm/min	0.87 in/min	FMVSS302

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	205 °C	401 °F	
Middle Barrel Temperature	210 °C	410 °F	
Front Barrel Temperature	215 °C	419 °F	
Nozzle Temperature	210 °C	410 °F	
Melt Temperature	215 °C	419 °F	

Processing Properties	Metric	English	Comments
Injection Velocity	50.0 mm/sec	1.97 in/sec	
Back Pressure	0.150 - 0.350 MPa	21.8 - 50.8 psi	
Cushion	0.650 cm	0.256 in	
Screw Speed	50 rpm	50 rpm	

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