

Polyram Polytron P30B01 Homopolymer Polypropylene, Chemically Coupled 30% LGF

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% Glass Fiber Filler

Material Notes:

A chemically coupled 30% 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-P30B01-Homopolymer-Polypropylene-Chemically-Coupled-30-LGF.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM-D792
Linear Mold Shrinkage	0.0017 cm/cm	0.0017 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ASTM-D638
Elongation at Break	2.6 %	2.6 %	ASTM-D638
Tensile Modulus	7.75 GPa	1120 ksi	ASTM-D790
Flexural Strength	150 MPa	21800 psi	ASTM-D790
Flexural Modulus	6.45 GPa	936 ksi	ASTM-D790
Izod Impact, Notched	1.60 J/cm @Temperature 23.0 °C	3.00 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	ASTM-D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 °C	392 °F	
Middle Barrel Temperature	205 °C	401 °F	
Front Barrel Temperature	210 °C	410 °F	
Nozzle Temperature	205 °C	401 °F	
Melt Temperature	210 °C	410 °F	
Mold Temperature	65.0 °C	149 °F	

Processing Properties	Metric	English	Comments
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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