

## Polyram Polytron P50B01 Homopolymer Polypropylene, Chemically Coupled 50% LGF

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 50% Glass Fiber Filler

### Material Notes:

A chemically coupled 50% 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-P50B01-Homopolymer-Polypropylene-Chemically-Coupled-50-LGF.php](http://www.lookpolymers.com/polymer_Polyram-Polytron-P50B01-Homopolymer-Polypropylene-Chemically-Coupled-50-LGF.php)

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ASTM-D792
Linear Mold Shrinkage	0.00030 cm/cm	0.00030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	135 MPa	19600 psi	ASTM-D638
Elongation at Break	2.0 %	2.0 %	ASTM-D638
Tensile Modulus	13.3 GPa	1930 ksi	ASTM-D790
Flexural Strength	210 MPa	30500 psi	ASTM-D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM-D790
Izod Impact, Notched	2.50 J/cm @Temperature 23.0 °C	4.68 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	159 °C	318 °F	ASTM-D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 °C	410 °F	
Middle Barrel Temperature	215 °C	419 °F	
Front Barrel Temperature	220 °C	428 °F	
Nozzle Temperature	215 °C	419 °F	
Melt Temperature	220 °C	428 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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