

Polyram Polytron P30N03 Polypropylene, 30% Long Glass Fibers

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

Material Notes:

A chemically coupled 30% long glass fibers reinforced natural polypropylene, heat stabilized, for injection molding applications. These products have significantly improved impact performance characteristics compared to other grades of Polypropylene long fiber thermoplastics. The room temperature Charpy impact properties are 25 to 30% higher at room temperature and at low temperature (-40°C). Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-Polytron-P30N03-Polypropylene-30-Long-Glass-Fibers.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527
Elongation at Break	2.9 %	2.9 %	ISO 527
Tensile Modulus	5.60 GPa	812 ksi	ISO 527
Flexural Strength	145 MPa	21000 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	ISO 75
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Flame Spread	10 mm/min	0.39 in/min	FMVSS302

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