

Polyram PlusTek RB301G6 Nylon 6 for Injection Molding, 30% Glass-fiber Reinforced, Industrial Grade

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

Industrial grade, 30% glass-fiber reinforced Nylon 6 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-RB301G6-Nylon-6-for-Injection-Molding-30-Glass-fiber-Reinforced-Industrial-Grade.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.90 %	0.90 %	50% RH; ISO 62
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 130 MPa	>= 18900 psi	ISO 527
Elongation at Break	>= 2.0 %	>= 2.0 %	ISO 527
Flexural Strength	>= 200 MPa	>= 29000 psi	ISO 178
Flexural Modulus	>= 6.50 GPa	>= 943 ksi	ISO 178
Izod Impact, Notched (ISO)	>= 8.00 kJ/m ²	>= 3.81 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	>= 210 °C	>= 410 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	>= 190 °C	>= 374 °F	ISO 75
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Flame Spread	15 mm/min	0.59 in/min	FMVSS302

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