

Polyram PB302G50 Nylon 6, 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

50% glass fiber reinforced, UV and heat stabilized polyamide approved and listed by W.R.C potable water and NSF/ANSI61 international information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PB302G50-Nylon-6-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	DIN 53479
Water Absorption	4.8 %	4.8 %	DIN 53495
Moisture Absorption at Equilibrium	1.5 %	1.5 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM-D785
Tensile Strength, Yield	150 MPa	21800 psi	ASTM-D638
Elongation at Break	3.0 %	3.0 %	ASTM-D638
Flexural Strength	320 MPa	46400 psi	ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ASTM-D790
Izod Impact, Notched	1.70 J/cm @Temperature 23.0 °C	3.18 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	
Maximum Service Temperature, Air	110 °C	230 °F	Continuous Use
	200 °C	392 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	DIN 53461
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	DIN 53482
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	DIN 53482
Dielectric Constant	3.8	3.8	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	80.0 kV/mm	2030 kV/in	VDE 0303/4

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