

Polyram PlusTek RA325G6 Nylon 66 for Injection Molding, 30% Glass-Fiber Reinforced, Flame Retardant, Halogen Free

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

30% Glass-fiber reinforced, flame retardant halogen free Nylon 66 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-RA325G6-Nylon-66-for-Injection-Molding-30-Glass-Fiber-Reinforced-Flame-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.9 %	1.9 %	50% RH; ISO 62
Water Absorption at Saturation	6.0 %	6.0 %	ISO 62
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	
Tensile Strength, Yield	150 MPa	21800 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	7.60 GPa	1100 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Maximum Service Temperature, Air	120 °C	248 °F	Continuous use
	240 °C	464 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	238 °C	460 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ISO 75
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Glow Wire Test Thermal Properties	850 °C Metric	1560 °F English	GWIT: IEC 60695 Comments
	960 °C	1760 °F	GWFI; IEC 60695

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60250

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