

Polyram PlusTek RA325G4 Nylon 66 for Injection Molding, 20% Glass-Fiber Reinforced, Self-Extinguishing, Halogen Free

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

Material Notes:

20% Glass-fiber reinforced, self-extinguishing 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-RA325G4-Nylon-66-for-Injection-Molding-20-Glass-Fiber-Reinforced-Self-Extinguishing-Halogen-Free.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; ISO 62
Water Absorption at Saturation	6.5 %	6.5 %	ISO 62
Linear Mold Shrinkage	0.0045 - 0.0055 cm/cm	0.0045 - 0.0055 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	115 MPa	16700 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Flexural Strength	180 MPa	26100 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 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)	240 °C	464 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.00e+15 ohm-cm Metric	1.00e+15 ohm-cm English	IEC 60093 Comments
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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