

Polyram RamTough PZ503 Polycarbonate, Flame Retardant

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Flame retardant polycarbonate for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamTough-PZ503-Polycarbonate-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	DIN 53479
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	
Melt Flow	12 g/10 min @Load 1.20 kg, Temperature 300 °C	12 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	ASTM-D638
Elongation at Break	90 %	90 %	ASTM-D638
Tensile Modulus	2.60 GPa	377 ksi	ASTM-D790
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	7.90 GPa	1150 ksi	ASTM-D790
Izod Impact, Notched	1.50 J/cm @Temperature 23.0 °C	2.81 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	DIN 53461
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
Glow Wire Test	960 °C	1760 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53482

Surface Resistance Electrical Properties	1.00e+15 ohm Metric	1.00e+15 ohm English	DIN 53482 Comments
Dielectric Strength	30.0 kV/mm	762 kV/in	VDE 0303/4

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