

Polycasa Acryl® G 88 Acrylic

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

Glazing, domed roof lights, lighting covers, publicity lighting, reflectors, lenses, instrument covers, dishes and bowls; mostly used in the automotive industry. Data was collected by ISO methods. Quinn Manufacturing Group rebranded its Plastics Division as Polycasa in 2013.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polycasa-Acryl-G-88-Acrylic.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	
Moisture Absorption at Equilibrium	0.30 %	0.30 %	
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	
Melt Flow	2.1 g/10 min @Load 3.80 kg, Temperature 230 °C	2.1 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 MPa	10900 psi	
Elongation at Break	3.5 %	3.5 %	
Tensile Modulus	3.30 GPa	479 ksi	
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	
Tensile Creep Modulus, 1000 hours	1400 MPa	203000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	
Vicat Softening Point	108 °C	226 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.2	3.2	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	60.0 kV/mm	1520 kV/in	
Dissipation Factor	0.030	0.030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.040	0.040	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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