

Polycasa Acryl® G 55 Acrylic, Injection Molding Grade

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

Material Notes:

Injection molding grade for very long flow paths, as well as thin-walled parts. 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-55-Acrylic-Injection-Molding-Grade.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	0.0040 cm/cm	0.0040 in/in	
Melt Flow	21 g/10 min @Load 3.80 kg, Temperature 230 °C	21 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.0 MPa	8990 psi	
Elongation at Break	3.0 %	3.0 %	
Tensile Modulus	3.10 GPa	450 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	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	
Vicat Softening Point	85.0 °C	185 °F	
Oxygen Index	18 %	18 %	

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	1.00e+15 ohm-cm Metric	1.00e+15 ohm-cm English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	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	
Dissipation Factor	0.040	0.040	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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