

## Polycasa Acryl® G 87 E Acrylic

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

### Material Notes:

Grade for extruding semi-finished products such as twin-strapped panels, profile and tubes, as well as injection molding of watch glasses, dishes, bowls, water-tap hand grips and bathroom fittings, soap dishes, shelves, containers and beakers. 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-87-E-Acrylic.php](http://www.lookpolymers.com/polymer_Polycasa-Acryl-G-87-E-Acrylic.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	
Moisture Absorption at Equilibrium	0.30 %	0.30 %	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
Melt Flow	1.5 g/10 min @Load 3.80 kg, Temperature 230 °C	1.5 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	72.0 MPa	10400 psi	
Elongation at Break	4.5 %	4.5 %	
Tensile Modulus	3.20 GPa	464 ksi	
Charpy Impact Unnotched	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	

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)	95.0 °C	203 °F	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	
Vicat Softening Point	103 °C	217 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Oxygen Index Thermal Properties	18 % Metric	18 % English	Comments
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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