

## Polycasa Acryl® KR 2014/1 Acrylic, Impact Grade

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

### Material Notes:

High-impact grade with good mechanical properties; applications include drawing instruments, scales, containers, display stands; good processing viscosity, especially suitable for coextrusion. Extruded and calendered flat film. 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-KR-20141-Acrylic-Impact-Grade.php](http://www.lookpolymers.com/polymer_Polycasa-Acryl-KR-20141-Acrylic-Impact-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	
Moisture Absorption at Equilibrium	0.40 %	0.40 %	
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	
Melt Flow	4.0 g/10 min @Load 3.80 kg, Temperature 230 °C	4.0 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	
Elongation at Break	40 %	40 %	
Elongation at Yield	5.0 %	5.0 %	
Tensile Modulus	1.75 GPa	254 ksi	
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C @Temperature 20.0 °C	61.1 µin/in-°F @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	87.0 °C	189 °F	
Flammability, UL94	HB	HB	

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Comments
Oxygen Index	18 %	18 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 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	
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	
Comparative Tracking Index	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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