

Plaskolite PL-24 Acrylic Resin

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

Material Notes:

For injection molding. An unlubricated version of PL-25 extrusion grade pellets. Highest molecular weight, maximum heat resistance. Information supplied by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-PL-24-Acrylic-Resin.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	2.5 g/10 min	2.5 g/10 min	ASTM D1238I

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	72.0 MPa	10400 psi	ASTM D638
Modulus of Elasticity	2.96 GPa	429 ksi	ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 $\mu\text{m/m-}^{\circ}\text{C}$	30.0 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 17.0 - 37.0 $^{\circ}\text{C}$	@Temperature 62.6 - 98.6 $^{\circ}\text{F}$	
Specific Heat Capacity	1.46 J/g- $^{\circ}\text{C}$	0.349 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Melting Point	157 $^{\circ}\text{C}$	315 $^{\circ}\text{F}$	Flow Temperature; ASTM D569
Maximum Service Temperature, Air	92.0 $^{\circ}\text{C}$	198 $^{\circ}\text{F}$	Deflection Temperature with load unspecified; ASTM D648
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542

Transmission Visible Optical Properties	92 % Metric	92 % English	ASTM D1003 Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	0.050	0.050	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

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