

Spartech Polycast Poly 2000 (Mil-P-25690;Class 1) Cell Cast Acrylic

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

Description: Cell Cast Acrylic Information provided by Spartech.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Polycast-Poly-2000-Mil-P-25690Class-1-Cell-Cast-Acrylic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hr immersion
Water Absorption at Saturation	2.6 %	2.6 %	26 day immersion

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	83.4 MPa	12100 psi	ASTM D638
Shear Strength	25.5 MPa	3700 psi	ASTM D732

Thermal Properties	Metric	English	Comments
CTE, linear	75.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	42.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Specific Heat Capacity	1.46 J/g- $\text{Å}^\circ\text{C}$ @Temperature 25.0 $\text{Å}^\circ\text{C}$	0.350 BTU/lb- $\text{Å}^\circ\text{F}$ @Temperature 77.0 $\text{Å}^\circ\text{F}$	Dupont 900 (Therm. An. Cal.)
Thermal Conductivity	0.187 W/m-K	1.30 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	Cento-Fitch

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	$\leq 1.5 \%$	$\leq 1.5 \%$	As Cast; ASTM D1925
	$\leq 3.0 \%$	$\leq 3.0 \%$	After 1000 hrs. Accelerated Weathering; ASTM D1449
Transmission, Visible	90 %	90 %	After 1000 hrs. Accelerated Weathering; ASTM D1449
	91 %	91 %	As Cast; ASTM D1003

Processing Properties	Metric	English	Comments
Processing Temperature	103 Â°C	218 Â°F	Hot Forming Temperature

Descriptive Properties	Value	Comments
Crack Propagation	2900 lbs/in 3/2	Received at STD Conditions
Craze Resistance to IPA (Dry)	3700 psi	Mil-P-8184
Craze Resistance to IPA (Wet)	2750 psi	Mil-P-8184
Craze Resistance to Lacquer Thinner (Dry)	3300 psi	Mil-P-8184
Craze Resistance to Lacquer Thinner (Wet)	2650 psi	Mil-P-8184
Thermal Relaxation at 230Â°F	3.3 %	Mil-P-25690
Thermal Relaxation at 293Â°F	45 %	Mil-P-25690

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