

## Spartech Polycast Solarcryl (0.187") 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-Solarcryl-0187-Cell-Cast-Acrylic.php](http://www.lookpolymers.com/polymer_Spartech-Polycast-Solarcryl-0187-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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.3 MPa	8600 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D638

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.)
Maximum Service Temperature, Air	68.3 $\text{Å}^\circ\text{C}$	155 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	93.3 $\text{Å}^\circ\text{C}$	200 $\text{Å}^\circ\text{F}$	ASTM D648
Flame Spread	30 mm/min	1.2 in/min	Burning Rate UL 94 HB; ASTM D635
Flash Point	443 $\text{Å}^\circ\text{C}$	830 $\text{Å}^\circ\text{F}$	Self Ignition Temperature; ASTM D1929
Shrinkage	2.2 %	2.2 %	Residual Shrinkage (Internal Strain) Polycast; ASTM D4802

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	$\leq 1.0$ %	$\leq 1.0$ %	As Cast; ASTM D1003

Transmission Visible Optical Properties	92 % Metric	92 % English	As Cast: ASTM D1003 Comments
Processing Properties	Metric	English	Comments
Processing Temperature	149 Â°C	300 Â°F	Hot Forming Temperature

## Contact Songhan Plastic Technology Co.,Ltd.

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