

## Spartech Polycast MP 1.25 (UL 752 Level 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-MP-125-UL-752-Level-1-Cell-Cast-Acrylic.php](http://www.lookpolymers.com/polymer_Spartech-Polycast-MP-125-UL-752-Level-1-Cell-Cast-Acrylic.php)

Physical Properties	Metric	English	Comments
Water Absorption	0.20 %	0.20 %	24 hr immersion

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.5 MPa	9500 psi	ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D638
Compressive Modulus	2.76 GPa	400 ksi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	75.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	42.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	1.46 J/g- $\text{Å}^\circ\text{C}$	0.350 BTU/lb- $\text{Å}^\circ\text{F}$	Dupont 900 (Therm. An. Cal.)
	@Temperature 25.0 $\text{Å}^\circ\text{C}$	@Temperature 77.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.187 W/m-K	1.30 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	Cento-Fitch
Maximum Service Temperature, Air	76.7 $\text{Å}^\circ\text{C}$	170 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-32.2 $\text{Å}^\circ\text{C}$	-26.0 $\text{Å}^\circ\text{F}$	Lowest Temp Tested for Bullet Resistance
Flame Spread	30 mm/min	1.2 in/min	Burning Rate UL 94 HB; ASTM D635
Flash Point	466 $\text{Å}^\circ\text{C}$	870 $\text{Å}^\circ\text{F}$	Self Ignition Temperature; ASTM D1929
Shrinkage	2.2 %	2.2 %	Residual Shrinkage (Internal Strain) Polycast; ASTM D4802

Optical Properties	Metric	English	Comments
Haze	$\leq 1.0$ %	$\leq 1.0$ %	As Cast; ASTM D1003
Yellow Index	$\leq 0.70$ %	$\leq 0.70$ %	As Cast; ASTM D1925

Optical Properties	Metric	English	Comments
UV Transmittance	0.00 % @Wavelength 320 nm	0.00 % @Wavelength 320 nm	TM D1003

Processing Properties	Metric	English	Comments
Processing Temperature	160 Â°C	320 Â°F	Hot Forming Temperature

Descriptive Properties	Value	Comments
Ballistic Protection	9 mm	
Smoke Density	Max 8%; Rating 5%	ASTM D2843

## Contact Songhan Plastic Technology Co.,Ltd.

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