

Optix® CP-41

Polymethyl Methacrylate Acrylic
Plaskolite West, Inc.

Message:

Optix® CP-41 is a polymethyl methacrylate-acrylic acid product. It can be processed by injection molding and is available in North America or Europe.
Features include:
flame retardant/rated flame
odorless/tasteless channel
high liquidity
Good processability
insulation

General Information			
UL YellowCard	E167330-100061596		
Features	Good dimensional stability		
	Insulation		
	Impact resistance, good		
	Workability, good		
	Machinable		
	High liquidity		
	Good chemical resistance		
	Good weather resistance		
	The smell is low to none		
	The smell is low to none		
	Definition, high		
	Medium molecular weight		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2810	MPa	ASTM D638
Tensile Strength	53.8	MPa	ASTM D638
Tensile Elongation (Break)	2.4	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790

Flexural Strength	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16	J/m	ASTM D256
Unnotched Izod Impact	230	J/m	ASTM D256
Dart Drop Impact	0.339	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	72.8	°C	ASTM D648
Vicat Softening Temperature	90.0	°C	ASTM D1525
CLTE - Flow (-30 to 30°C)	6.7E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	92.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003
Additional Information			
Thermal Index, UL-746 ABC: 50°CBurn Rate, ASTM D635: 1.9 in/min			
Injection	Nominal Value	Unit	
Drying Temperature	65.6 - 73.9	°C	
Rear Temperature	199 - 243	°C	
Middle Temperature	204 - 249	°C	
Front Temperature	210 - 254	°C	
Nozzle Temperature	204 - 254	°C	
Processing (Melt) Temp	204 - 254	°C	
Mold Temperature	48.9 - 73.9	°C	
Injection instructions			
Heated Manifold: 400-480°FHeated Drop (Sprue): 400-480°F			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT