Optix® CP-1000I

Polymethyl Methacrylate Acrylic

Plaskolite West, Inc.

Message:

Optix®CP-1000I is a polymethyl methacrylate-acrylic acid product. It can be processed by injection molding and is available in North America or Europe.
Typical application areas are: automotive industry.
Features include:
flame retardant/rated flame
odorless/tasteless channel
Good processability
insulation
Good dimensional stability

General Information			
UL YellowCard	E167330-100061595		
Features	Good dimensional stability Insulation Impact resistance, good Workability, good Machinable Low liquidity Good chemical resistance Good weather resistance The smell is low to none The smell is low to none Definition, high		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.16	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.7	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	36		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength	42.1	MPa	ASTM D638
Tensile Elongation (Break)	37	%	ASTM D638
Flexural Modulus	1790	MPa	ASTM D790

Flexural Strength	61.4	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	64	J/m	ASTM D256
Unnotched Izod Impact	990	J/m	ASTM D256
Dart Drop Impact	5.88	J	ASTM D3029
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.2	°C	ASTM D648
Vicat Softening Temperature	99.4	°C	ASTM D1525
CLTE - Flow (-30 to 30°C)	8.1E-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	91.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003
Additional Information			
Thermal Index, UL-746 ABC: 90°CBurn Rate, ASTM D635: 1.7 in/min			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	65.6 - 73.9	°C	
Rear Temperature	204 - 249	°C	
Middle Temperature	210 - 254	°C	
Front Temperature	216 - 260	°C	
Nozzle Temperature	210 - 260	°C	
Processing (Melt) Temp	210 - 249	°C	
Mold Temperature	48.9 - 79.4	°C	
Injection instructions			
Heated Manifold: 410-480°FHeated Drop (Sprue): 410-480°F			

Recommended distributors for this material

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