Optix® CP-61

Polymethyl Methacrylate Acrylic

Plaskolite West, Inc.

Message:

Optix®CP-61 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	E167330-100061600	E357039-101308952	
Features	Good dimensional stability		
	Insulation		
	Impact resistance, good		
	Workability, good		
	Machinable		
	Medium liquidity		
	Good chemical resistance		
	Good weather resistance		
	Heat resistance, high		
	The smell is low to none		
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	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/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.8	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)	93		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3030	MPa	ASTM D638
Tensile Strength	66.2	MPa	ASTM D638

Tensile Elongation (Break)	3.4	%	ASTM D638
Flexural Modulus	3070	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	21	J/m	ASTM D256
Unnotched Izod Impact	280	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)	91.1	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525
CLTE - Flow (-30 to 30°C)	6.2E-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: 2.4 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			

Recommended distributors for this material

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