Optix® CP-86

Polymethyl Methacrylate Acrylic

Plaskolite West, Inc.

Message:

Optix®CP-86 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
high molecular weight
Good processability
insulation

General Information	
UL YellowCard	E167330-100061616
Features	Good dimensional stability High molecular weight Insulation Impact resistance, good Workability, good Machinable Low liquidity Good chemical resistance Good weather resistance Heat resistance, high 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	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.4	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)	89		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3640	MPa	ASTM D638
Tensile Strength	69.6	MPa	ASTM D638

Tensile Elongation (Break)	5.5	%	ASTM D638
Flexural Modulus	2840	MPa	ASTM D790
Flexural Strength	114	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)	100	°C	ASTM D648
Vicat Softening Temperature	113	°C	ASTM D1525
CLTE - Flow (-30 to 30°C)	6.1E-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	92.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003
Additional Information			
Thermal Index, UL-746 ABC: 90°CBurn Rate, ASTM D635: 1.3 in/min			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.1 - 85.0	°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 - 254	°C	
Mold Temperature	48.9 - 93.3	°C	
Injection instructions			
Heated Manifold: 410-490°FHeated Drop (Sprue): 410-490°F			

Recommended distributors for this material

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