

Optix® CP-81

Polymethyl Methacrylate Acrylic
Plaskolite West, Inc.

Message:

Optix® CP-81 is a polymethyl methacrylate-acrylic acid product. It can be processed by extrusion and is available in North America or Europe.
Features include:
flame retardant/rated flame
odorless/tasteless channel
high molecular weight
Good processability
insulation

General Information			
UL YellowCard	E167330-100061610	E357039-101308953	
Additive	Lubricant		
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		
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	Definition, high		
	Lubrication		
Appearance	Available colors		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.3	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)	88		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638

Tensile Strength	66.9	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	2920	MPa	ASTM D790
Flexural Strength	108	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)	97.8	°C	ASTM D648
Vicat Softening Temperature	107	°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			

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