

# Optix® CA-990

Polymethyl Methacrylate Acrylic

Plaskolite West, Inc.

## Message:

CA-990 Clear is a medium Impact Modified Acrylic polymer for extrusion and injection molding. This polymer offers impact strength up to seven times the strength of General Purpose acrylic polymers.

Outstanding performance, optical clarity and great light transmissions. Ideally designed for injection moldings of building decoration products such as window blocks. Excellent surface gloss and practical toughness.

General Information			
UL YellowCard	E167330-101262350		
Additive	Impact Modifier		
Features	Good Toughness		
	High Clarity		
	High Gloss		
	Impact Modified		
	Medium Impact Resistance		
	Opticals		
Uses	Building Materials		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.8	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ASTM D638
Tensile Strength (Yield)	50.3	MPa	ASTM D638
Tensile Elongation (Yield)	5.3	%	ASTM D638
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Gardner Impact <sup>1</sup>	3.62	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	78.9	°C	ASTM D648
Vicat Softening Temperature	112	°C	ASTM D1525
Flammability	Nominal Value		Test Method

Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	91.3	%	ASTM D1003
NOTE			
1.	Geometry GB		

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