

# Optix® CA-1000 E

Polymethyl Methacrylate Acrylic

Plaskolite West, Inc.

## Message:

CA-1000 E clear is an Impact Modified Acrylic polymer for extrusion processes. This polymer offers up to twelve times the strength of General Purpose acrylic polymers.

Outstanding performance, surface gloss, optical clarity and great light transparency. Ideally designed for extrusion processes. Excellent blend stock material for those applications requiring non-standard impact material.

General Information			
UL YellowCard	E167330-225030	E167330-225046	E167330-101306920
Additive	Impact Modifier		
Features	High Clarity		
	High Gloss		
	High Strength		
	Impact Modified		
	Opticals		
Uses	Blending		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
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)	1.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1760	MPa	ASTM D638
Tensile Strength (Yield)	44.9	MPa	ASTM D638
Tensile Elongation (Yield)	14	%	ASTM D638
Flexural Strength	61.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	64	J/m	ASTM D256
Gardner Impact <sup>1</sup>	6.33	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	80.0	°C	ASTM D1003
Vicat Softening Temperature	108	°C	ASTM D1525
RTI Elec	90.0	°C	UL 746
RTI Imp	90.0	°C	UL 746
RTI Str	90.0	°C	UL 746
Flammability	Nominal Value	Test Method	

Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	90.7	%	ASTM D1003
NOTE			
1.	Geometry GB		

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