

Optix® CA-1000 E-2

Polymethyl Methacrylate Acrylic

Plaskolite West, Inc.

Message:

CA-1000 E-2 Clear is a specially designed impactmodified grade polymer designed for extrusion process. The typical applications are films, extruded sheets, capping material for other plastic substrates.

Designed based on the best balance of 2 phases of acrylics i.e. acrylic plastic phases & acrylic elastomeric phase. Design in molecular morphology and refractive index match, Has up to 10 times impact strength of general-purpose acrylic polymers without sacrificing optical and weathering resistance properties. Excellent blend stock material for those applications requiring let-down impact strength.

General Information	
UL YellowCard	E167330-480613
Additive	Impact Modifier
Features	Good Weather Resistance
	High Impact Resistance
	Impact Modified
	Opticals
Uses	Building Materials
	Film
	Sheet
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Extrusion
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.80	g/10 min	ASTM D1238
Outdoor Suitability	f2		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1760	MPa	ASTM D638
Tensile Strength (Yield)	44.9	MPa	ASTM D638
Tensile Elongation (Yield)	38	%	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 ¹	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	91.7	%	ASTM D1003
NOTE			
1.	Geometry GB		

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