

Optix® CA-82

Polymethyl Methacrylate Acrylic
Plaskolite West, Inc.

Message:

CA-82 clear is general-purpose polymer designated for injection molding and extrusions. This polymer contains a mold release agent and offers High molecular weight along with good heat resistance.
Excellent performance and process ability. Design for all injection molding applications for House-ware designs and Automotive. Ideally the polymer preferred by major automotive companies for taillight lenses. Ease to process with crystal clear appearance and no odor. Excellent in blending with colors.

General Information			
UL YellowCard	E167330-225047		
Additive	Mold Release		
Features	General Purpose		
	Good Mold Release		
	Good Processing Stability		
	High Molecular Weight		
	Low to No Odor		
	Medium Heat Resistance		
Uses	Automotive Applications		
	Blending		
	General Purpose		
	Household Goods		
	Lighting Diffusers		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3030	MPa	ASTM D638
Tensile Strength (Yield)	67.6	MPa	ASTM D638
Tensile Elongation (Yield)	3.4	%	ASTM D638
Flexural Strength	118	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	94.4	°C	ASTM D1003


Vicat Softening Temperature	102	°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	92.0	%	ASTM D1003

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