

Optix® CA-51

Polymethyl Methacrylate Acrylic

Plaskolite West, Inc.

Message:

CA-51 clear is general-purpose polymer designated for injection molding applications. This resin offers the medium heat resistance with a medium melt flow rate.

Outstanding performance in decoration and cleanliness, scratch resistance on Optical products. Water-Clear appearance and design flexibility on house-ware designs

General Information			
UL YellowCard	E167330-225035		
Features	Clean/High Purity		
	General Purpose		
	Good Flexibility		
	Medium Flow		
	Medium Heat Resistance		
	Scratch Resistant		
Uses	General Purpose		
	Household Goods		
	Optical Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	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)	15	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2890	MPa	ASTM D638
Tensile Strength (Yield)	55.8	MPa	ASTM D638
Tensile Elongation (Yield)	2.6	%	ASTM D638
Flexural Strength	102	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	75.6	°C	ASTM D1003
Vicat Softening Temperature	98.9	°C	ASTM D1525
RTI Elec	85.0	°C	UL 746
RTI Imp	85.0	°C	UL 746
RTI Str	85.0	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

