

Plaskolite Acrylic PL-52

Polymethyl Methacrylate Acrylic

Plaskolite, Inc.

Message:

Plaskolite Acrylic PL-52 is a Polymethyl Methacrylate Acrylic material. It is available in North America for extrusion or injection molding.

Important attributes of Plaskolite Acrylic PL-52 are:

Flame Rated

Chemical Resistant

Clarity

Good Mold Release

Good Toughness

Typical application of Plaskolite Acrylic PL-52: Household Applications

General Information			
Features	Electrically Insulating		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Mold Release		
	Good Thermal Stability		
	Good Toughness		
	Good Weather Resistance		
	High Clarity		
	Ultra High Molecular Weight		
Uses	Household Goods		
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)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength (Yield)	72.4	MPa	ASTM D638
Flexural Strength (Yield)	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	92.2	°C	ASTM D648
Melting Temperature	157	°C	
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Specific Heat	1460	J/kg/°C	ASTM C351
Thermal Conductivity	0.20	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.70		ASTM D150
Dissipation Factor (60 Hz)	0.050		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	92.0	%	ASTM D1003

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