

# Plaskolite Acrylic PL-24

Polymethyl Methacrylate Acrylic

Plaskolite, Inc.

Message:

Plaskolite Acrylic PL-24 is a Polymethyl Methacrylate Acrylic material. It is available in North America for extrusion or injection molding.

Important attributes of Plaskolite Acrylic PL-24 are:

Flame Rated

Chemical Resistant

Clarity

Good Toughness

Good Weather Resistance

Typical application of Plaskolite Acrylic PL-24: Household Applications

General Information	
Features	Electrically Insulating
	Good Chemical Resistance
	Good Impact Resistance
	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 <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	2.5	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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#### Recommended distributors for this material

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