

LUCITE® L

Polymethyl Methacrylate Acrylic
Lucite International Inc.

Message:

LUCITE® L is a Polymethyl Methacrylate Acrylic material. It is available in North America for thermoforming.
Important attributes of LUCITE® L are:
Clarity
Good Weather Resistance
Impact Resistant
Scratch Resistant
Warp Resistant
Typical applications include:
Coating Applications
Automotive
Household Applications
Lighting Applications

General Information			
UL YellowCard	E65769-247868	E65769-247869	
Features	Good Crack Resistance		
	Good Impact Resistance		
	Good Weather Resistance		
	High Clarity		
	Scratch Resistant		
	Warp Resistant		
Uses	Automotive Applications		
	Glazing		
	Household Goods		
	Laminates		
	Lighting Diffusers		
Agency Ratings	ANSI Z 26.1-1966		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2940	MPa	ASTM D638
Tensile Strength (Break)	74.5	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638

Flexural Modulus	2940	MPa	ASTM D790
Flexural Strength (Yield)	103	MPa	ASTM D790
Compressive Modulus	2940	MPa	ASTM D695
Compressive Strength	123	MPa	ASTM D695
Shear Strength	61.4	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (12.7 mm)	32.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.0	°C	ASTM D648
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.21	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	4.00		
1 MHz	3.00		
Dissipation Factor			ASTM D150
60 Hz	0.060		
1 MHz	0.020		
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	92.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003

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WECHAT