

ShinkoLite-A S

Polymethyl Methacrylate Acrylic
Mitsubishi Rayon America Inc.

Message:

ShinkoLite-A S is a Polymethyl Methacrylate Acrylic material. It is available in North America for casting.

Important attributes of ShinkoLite-A S are:

- Low to No Odor/Taste
- Good UV Resistance
- Good Weather Resistance
- High Gloss
- Impact Resistant

Typical applications include:

- Automotive
- Construction Applications
- Furniture
- Household Applications
- Industrial Applications

General Information			
UL YellowCard	E54695-100912641	E54695-100912642	
Features	Good Impact Resistance		
	Good UV Resistance		
	Good Weather Resistance		
	High Gloss		
	Low to No Odor		
	Low to No Taste		
Uses	Automotive Applications		
	Bathroom Accessories		
	Building Materials		
	Furniture		
	Industrial Applications		
	Lighting Diffusers		
Appearance	Clear/Transparent		
	Colors Available		
	Translucent		
Forms	Pellets		
	Sheet		
Processing Method	Casting		
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 (Break)	103	MPa	ASTM D790
Compressive Modulus	2940	MPa	ASTM D695
Compressive Strength	123	MPa	ASTM D695
Shear Strength	61.7	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648
Continuous Use Temperature	85.0	°C	ASTM D794
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Specific Heat	1460	J/kg/°C	ASTM C351
Thermal Conductivity	0.21	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	4.00		
1 kHz	4.00		
1 MHz	3.00		
Dissipation Factor			ASTM D150
60 Hz	0.060		
1 kHz	0.040		
1 MHz	0.020		
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	93.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003

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