

Shinkolite MR

Polymethyl Methacrylate Acrylic
Mitsubishi Rayon Co., Ltd.

Message:

Shinkolite MR is a polymethyl methacrylate-acrylic material. This product is available in North America, Europe or Asia Pacific. The main characteristics of Shinkolite MR are: odorless/tasteless tract.

General Information			
Features	The smell is low to none		
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Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792, ISO 1183
Water Absorption			
24 hr	0.30	%	ASTM D570
23°C, 24 hr	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	100		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ASTM D638, ISO 527-2/1B/1
Tensile Strength (Break)	64.0	MPa	ASTM D638, ISO 527-2/1B/5
Tensile Elongation (Break)	2.2	%	ASTM D638, ISO 527-2/1B/5
Flexural Modulus	3200	MPa	ASTM D790, ISO 178
Flexural Stress			
--	91.0	MPa	ISO 178
Fracture	91.0	MPa	ASTM D790
Compressive Modulus	3200	MPa	ASTM D695, ISO 604
Compressive Strength	120	MPa	ASTM D695, ISO 604
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696, ISO 11359-2
Specific Heat	1500	J/kg/°C	
Thermal Conductivity	0.21	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹	> 1.0E+16	ohms	ASTM D257
Volume Resistivity	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ²	20	kV/mm	ASTM D149

Dielectric Constant			ASTM D150
60 Hz	4.00		ASTM D150
1 kHz	4.00		ASTM D150
1 MHz	3.00		ASTM D150
Dissipation Factor			ASTM D150
60 Hz	0.060		ASTM D150
1 kHz	0.040		ASTM D150
1 MHz	0.020		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Burning Rate			
--	33	mm/min	ISO 1210
--	33	mm/min	ASTM D635
Optical	Nominal Value	Unit	Test Method
Refractive Index			
--	1.520		ASTM D542
-- ³	1.520		ISO 489
Transmittance			
Total	93.0	%	ASTM D1003
Total	93.0	%	ISO 13468-1
Haze			
--	0.50	%	ASTM D1003
--	0.50	%	ISO 14782
Additional Information	Nominal Value	Unit	
Soluble Matter Loss - after immersion	0.0	%	
NOTE			
1.	28°C, 75%RH		
2.	Method A (short time)		
3.	Method A		

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