

ShinkoLite-P MD

Polymethyl Methacrylate Acrylic
Mitsubishi Rayon America Inc.

Message:
Approved Rating: SAE Unspecified

General Information			
UL YellowCard	E54695-244808	E256044-100422226	E95683-101677757
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Moldability		
	Good Weather Resistance		
	High Gloss		
	High Heat Resistance		
	Low to No Odor		
	Low to No Taste		
Uses	Rods		
	Tubing		
Appearance	Clear/Transparent		
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) (230°C/3.8 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3240	MPa	ASTM D638
Tensile Strength (Break)	68.6	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3040	MPa	ASTM D790
Flexural Strength (Break)	103	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	88.9	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525
CLTE - Flow	5.9E-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+15	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.70		ASTM D150
Dissipation Factor (60 Hz)	0.050		ASTM D150
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	93.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 85.0	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	190 to 240	°C	
Middle Temperature	190 to 240	°C	
Front Temperature	190 to 240	°C	
Mold Temperature	50.0 to 90.0	°C	
Injection Pressure	78.4 to 137	MPa	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 to 220	°C	
Cylinder Zone 2 Temp.	210 to 230	°C	
Cylinder Zone 3 Temp.	210 to 230	°C	
Die Temperature	210 to 230	°C	

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