

Double Elephant SX-304

Polymethyl Methacrylate Acrylic
Suzhou Double Elephant Optical Material Co., LTD.

Message:
Molding compound with excellent heat resistance, mechanical strength, and light transmission up to 93%
Application: LGP (light guide panel)

General Information			
Features	High Heat Resistance		
Uses	Lighting Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0	g/10 min	ISO 1133
Water Absorption (Saturation, 23°C)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	78.0	MPa	ISO 527-2
Tensile Strain (Break)	6.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.8	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	101	°C	ISO 75-2/A
Vicat Softening Temperature	108	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+16	ohms	
Volume Resistivity	> 1.0E+14	ohms · cm	GB/T 1410
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Transmittance	> 93.0	%	ISO 13468

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