

Panlite® ML-1102

Polycarbonate

TEIJIN LIMITED

Message:

Light diffusion grade, (Non corresponding UL94)

General Information			
Features	Good Light Diffusion		
Uses	Automotive Interior Parts		
	LEDs		
	Lighting Applications		
	Lighting Diffusers		
Appearance	Milky White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.50 to 0.70	%	
Flow : 4.00 mm	0.50 to 0.70	%	
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	61.0	MPa	
Break	62.0	MPa	
Tensile Strain (Yield)	6.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	> 50	%	ISO 527-2/50
Flexural Modulus ¹	2230	MPa	ISO 178
Flexural Stress ²	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	40	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	141	°C	ISO 75-2/B
1.8 MPa, Unannealed	129	°C	ISO 75-2/A
Vicat Softening Temperature	148	°C	ISO 306/B50
CLTE			ISO 11359-2

Flow	7.0E-5	cm/cm/°C	
Transverse	7.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	48.0	%	ASTM D1003
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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