

Panlite® M-1150VX

TEIJIN LIMITED - Polycarbonate Alloy

General Information

Product Description

Thermal shielding grade

General

Properties	• Thermally Insulating	• UV Resistant
Uses	• Optical Applications	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	8.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	62.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	> 50	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2200	MPa	ISO 178
Flexural Stress ² (23°C)	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	75	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	140	°C	ISO 75-2/B
Deflection Temperature Under Load 1.8 MPa, Unannealed	128	°C	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0 to 8.0	hr
Processing (Melt) Temp	260 to 320	°C
Mold Temperature	70 to 120	°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min