

Panlite® AM-9730FZ

TEIJIN LIMITED - Polycarbonate + Polyester

General Information

Product Description

Polycarbonate/Polyester alloy (Special fine filament)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Surface Finish	• High Rigidity • UV Resistant	
Uses	• Handles		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	9.00	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.50 to 0.70	%	
Flow : 4.00 mm	0.40 to 0.60	%	
Water Absorption (24 hr, 23°C)	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2/1
Tensile Stress (Yield)	60.0	MPa	ISO 527-2/50
Tensile Stress (Break)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Tensile Strain (Break)	100	%	ISO 527-2/50
Flexural Modulus ²	3300	MPa	ISO 178
Flexural Stress ²	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m ²	
23°C	35	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	132	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Unannealed)	105	°C	ISO 75-2/A
CLTE - Flow	5.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	7.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093

Notes

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

² 2.0 mm/min