

# Panlite® AM-9730FZ

TEIJIN LIMITED - Polycarbonate + Polyester

## General Information

### Product Description

Polycarbonate/Polyester alloy, Special modification

### General

Filler / Reinforcement	• Mineral
Properties	• Chemical Resistant • Good Surface Finish • High Rigidity • UV Resistant
Uses	• Handles
Forms	• Pellets
Processing Method	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	9.0	cm <sup>3</sup> /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 (23°C)	3500	MPa	ISO 527-1/1
Tensile Stress (Yield, 23°C)	60.0	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2/50
Tensile Strain (Break, 23°C)	100	%	ISO 527-2/50
Flexural Modulus <sup>2</sup> (23°C)	3300	MPa	ISO 178
Flexural Stress <sup>2</sup> (23°C)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m <sup>2</sup>	
23°C	35	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	132	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	105	°C	
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

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### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0 to 8.0	hr
Processing (Melt) Temp	260 to 280	°C
Mold Temperature	50 to 80	°C

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min