

Panlite® AM-1300

TEIJIN LIMITED - Polycarbonate Alloy

General Information

Product Description

PC alloy grade (Special modification)

General

Properties	• Chemical Resistant	• Good Impact Resistance
Uses	• Automotive Instrument Panel	• Cell Phones
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	7.0	cm ³ /10min	ISO 1133
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 (24 hr, 23°C)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2250	MPa	ISO 527-1/1
Tensile Stress (Yield, 23°C)	56.0	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	61.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	5.0	%	ISO 527-2/50
Tensile Strain (Break)	130	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2150	MPa	ISO 178
Flexural Stress ² (23°C)	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	55	kJ/m ²	
23°C	63	kJ/m ²	
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	135	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	123	°C	
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	7.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (0.40 mm)	80.0	°C	UL 746B
RTI Imp (0.40 mm)	80.0	°C	UL 746B
RTI Str (0.40 mm)	80.0	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093

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Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.40 mm)	V-2		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0 to 8.0	hr
Processing (Melt) Temp	260 to 280	°C
Mold Temperature	60 to 120	°C

Notes

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

² 2.0 mm/min