Panlite® AM-1300

TEIJIN LIMITED - Polycarbonate Alloy

General Information

Product Description			
PC alloy grade (Special modification)			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• 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/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	7.00	cm³/10min	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	2250	MPa	ISO 527-2/1
Tensile Stress (Yield)	56.0	MPa	ISO 527-2/50
Tensile Stress (Break)	61.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Tensile Strain (Break)	130	%	ISO 527-2/50
Flexural Modulus [2]	2150	MPa	ISO 178
Flexural Stress [2]	85.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	55	kJ/m²	
23°C	63	kJ/m²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	135	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Unannealed)	123	°C	ISO 75-2/A
CLTE - Flow	7.0E-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
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.40 mm)	V-2		UL 94

Notes

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

[2] 2.0 mm/min