

Panlite® AM-1300E

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)	20	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	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	56.0	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	60.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	> 50	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2160	MPa	ISO 178
Flexural Stress ² (23°C)	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	46	kJ/m ²	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	122	°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
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
Injection	Nominal Value	Unit
Mold Temperature	60 to 120	°C

Notes

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

² 2.0 mm/min