

Panlite® AM-1300

Polycarbonate Alloy

TEIJIN LIMITED

Message:

PC alloy grade (Special modification)

General Information			
UL YellowCard	E98529-100712126		
Features	Impact resistance, good		
	Good chemical resistance		
Uses	Car dashboard		
	Mobile phone		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	7.00	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction: 4.00mm	0.50 - 0.70	%	Internal method
Flow direction: 4.00mm	0.50 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2250	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	56.0	MPa	ISO 527-2/50
Fracture	61.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	5.0	%	ISO 527-2/50
Fracture	130	%	ISO 527-2/50
Flexural Modulus ¹	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/m ²	ISO 179
23°C	63	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, not annealed	135	°C	ISO 75-2/B
1.8 MPa, not annealed	123	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	ISO 11359-2
Lateral	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 (0.400 mm)	V-2		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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