Panlite® AM-8030

TEIJIN LIMITED - Polycarbonate + Polyester

General Information

Product Description			
Polycarbonate/Polyester alloy			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant		
Uses	• Automotive Exterior Parts		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	11	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.70 to 1.0	%	
Flow : 4.00 mm	0.70 to 1.0	%	
Water Absorption (24 hr, 23°C)	0.22	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Stress (Yield)	62.0	MPa	ISO 527-2/50
Tensile Stress (Break)	56.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Tensile Strain (Break)	110	%	ISO 527-2/50
Flexural Modulus [2]	2250	MPa	ISO 178
Flexural Stress [2]	92.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	15	kJ/m²	
23°C	50	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)	123	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Unannealed)	104	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093

Notes

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

[2] 2.0 mm/min