

Teijin Kasei America, Inc.



Friday, August 31, 2007

Panlite® AM-8035

Teijin Kasei America, Inc. (Teijin Chemicals) - Polycarbonate + PBT

Unit System: English **Actions****Legend (Open)****General Information****General**

Material Status		Commercial: Active
Availability		Asia Europe North America
Test Standards Available		ISO
Features		Chemical Resistance, Good Impact Resistance, Good Flow, Good Moldability, Good Heat Resistance, High
Uses		Automotive Applications Handles
Forms		Pellets
Processing Method		Injection Molding

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	0.854	in ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	290000	psi	ISO 527-1, -2
Tensile Stress at Yield ³	7400	psi	ISO 527-1, -2
Tensile Strain at Yield ³	5.0	%	ISO 527-1, -2
Nominal Tensile Strain at Break ³	50	%	ISO 527-1, -2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	27.6	ft-lb/in ²	ISO 179
Charpy Unnotched Impact Strength	No Break	ft-lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
HDT B (0.45 MPa) Unannealed	226	°F	ISO 75B-1, -2
HDT A (1.80 MPa) Unannealed	192	°F	ISO 75A-1, -2
Vicat Softening Temperature (B50 (50°C/h 50N))	250	°F	ISO 306
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohm-cm	IEC 60093

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 248	°F
Drying Time	5.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	446 to 500	°F
Mold Temperature	140 to 176	°F

Notes

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

² 0.039 in/min

³ 2.0 in/min

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