

Panlite® MN-3705

Polycarbonate

TEIJIN LIMITED

Message:

PC grade

General Information			
UL YellowCard	E98529-499237	E244324-101599270	
Features	Bromine Free		
	Flame Retardant		
Uses	Battery Cases		
	Electrical Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	27.0	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	%	
Water Absorption (23°C, 24 hr)	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2450	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	60.0	MPa	
Break	50.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	100	%	
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress ²	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	50	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, Unannealed	108	°C	ISO 75-2/B

1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	7.0E-5	cm/cm/°C	
Transverse	7.0E-5	cm/cm/°C	
RTI Elec (1.50 mm)	80.0	°C	UL 746
RTI Imp (1.50 mm)	80.0	°C	UL 746
RTI Str (1.50 mm)	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.400 mm	V-2		
0.800 mm	V-0		
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	825	°C	IEC 60695-2-13
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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