

Panlite® MN-3600H

Polycarbonate Alloy

TEIJIN LIMITED

Message:

PC alloy grade

General Information			
UL YellowCard	E98529-253660	E244324-101599265	
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)	17.5	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	2350	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	45	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	125	°C	ISO 75-2/B

1.8 MPa, Unannealed	112	°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)	95.0	°C	UL 746
RTI Imp (1.50 mm)	95.0	°C	UL 746
RTI Str (1.50 mm)	95.0	°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
0.450 mm	HB		
1.00 mm	V-1		
1.50 mm	V-0		
2.00 mm	5VB		
3.00 mm	5VA		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
1.50 mm	930	°C	
2.00 mm	960	°C	
3.00 mm	930	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	875	°C	
1.50 mm	825	°C	
2.00 mm	825	°C	
3.00 mm	825	°C	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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