

Panlite® MN-4805Z

Polycarbonate

TEIJIN LIMITED

Message:

Transparent Flame Retardant

General Information			
UL YellowCard	E98529-100629559		
Features	Bromine Free		
	Flame Retardant		
	Good Mold Release		
	Good Weather Resistance		
Uses	General Purpose		
	LEDs		
	Lighting Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
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)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	64.0	MPa	ISO 527-2/50
Nominal Tensile Strain at Break	> 50	%	ISO 527-2/50
Flexural Modulus ¹	2250	MPa	ISO 178
Flexural Stress ²	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	126	°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
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	5VA		
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	960	°C	
2.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	850	°C	
2.00 mm	850	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	88.0	%	ASTM D1003
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT