

Panlite® MN-4805ZL

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

Transparent Flame Retardant, Weather resistant

General

Properties	- Bromine Free - Flame Retardant	- High Flow - UV Resistant
Uses	General Purpose	Lighting Applications
Appearance	Clear/Transparent	
Forms	Pellets	
Processing Method	Injection Molding	

ASTM & ISO Properties ¹

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	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	69.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	70	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2270	MPa	ISO 178
Flexural Stress ² (23°C)	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	126	°C	
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	7.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5 mm)	130	°C	UL 746B
RTI Imp (1.5 mm)	125	°C	UL 746B
RTI Str (1.5 mm)	130	°C	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm	V-0		
3.0 mm	5VA		
Optical	Nominal Value	Unit	Test Method
Light Transmittance (3000 µm)	88.0	%	ASTM D1003

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Processing Information		
Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0 to 8.0	hr
Processing (Melt) Temp	270 to 320	°C
Mold Temperature	80 to 120	°C

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 2.0 mm/min