+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Panlite® LS-2250

TEIJIN LIMITED - Polycarbonate

General Information

Product Description		
Frictional wear resistant grade		
General		
Properties	• Low Viscosity	• Wear Resistant
Uses	• Industrial Applications	
Appearance	• Opaque	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.26	g/cm³	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 (24 hr, 23°C)	0.17	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2400	MPa	ISO 527-1/1
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	6.0	%	ISO 527-2/50
Tensile Strain (Break, 23°C)	110	%	ISO 527-2/50
Flexural Modulus [2] (23°C)	2200	MPa	ISO 178
Flexural Stress [2] (23°C)	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	25	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	67		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed	139	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	130	°C	
Vicat Softening Temperature	141	°C	ISO 306/B50
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)	115	°C	UL 746B
RTI Imp (1.5 mm)	105	°C	UL 746B
RTI Str (1.5 mm)	105	°C	UL 746B

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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength [3]	32	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.00		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	9.0E-3		
Arc Resistance	100	sec	ASTM D495
Comparative Tracking Index	300	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.5 mm)	V-2		UL 94

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

[3] short time test