Panlite® LS-2250

PC — Teijin Chemicals Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.006**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.006**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2400**	MPa	ISO 527
Yield stress	**50**	MPa	ISO 527
Yield strain	**6**	%	ISO 527
Stress at break	**50**	MPa	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**2200**	MPa	ISO 178
Flexural strength	**80**	MPa	ISO 178
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**25**	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Modulus	**2300**	MPa	ASTM D 638
Tensile Strength at Yield	**55**	MPa	ASTM D 638
Tensile Strength at Break	**51**	MPa	ASTM D 638
Elongation at Yield	**6**	%	ASTM D 638
Elongation at Break	**110**	%	ASTM D 638
Compressive Strength	**73**	MPa	ASTM D 695
Flexural Modulus	**2110**	MPa	ASTM D 790
Flexural Strength	**78**	MPa	ASTM D 790
Rockwell Hardness	**M 67**	-	ASTM D 785
Izod Impact notched, 1/8 in	**290**	J/m	ASTM D 256
Izod Impact notched, 1/4 in	**120**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**130**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**139**	°C	ISO 75-1/-2
Vicat softening temperature, B	**141**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**70**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**70**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-2**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	**70**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**70**	E-6/K	ASTM D 696

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	**3**	-	IEC 62631-2-1
Relative permittivity, 1MHz	**3**	-	IEC 62631-2-1
Dissipation factor, 100Hz	**10**	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	**90**	E-4	IEC 62631-2-1
Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
Electric strength	**32**	kV/mm	IEC 60243-1
Comparative tracking index	**300**	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	**30**	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	**0.0008**	-	ASTM D 150
Dissipation Factor, 1 MHz	**0.008**	-	ASTM D 150
Dielectric Constant, 60 Hz	**2.85**	-	ASTM D 150
Dielectric Constant, 1 MHz	**2.8**	-	ASTM D 150

Volume Resistivity	**1E16**	Ohm*cm	ASTM D 257
Arc Resistance	**100**	s	ASTM D 495

Other properties	**Value**	**Unit**	**Test Standard**
Density	**1260**	kg/m³	ISO 1183
Water Absorption, Equilibrium	**0.17**	%	ASTM D 570

Processing Recommendation Injection Molding	**Value**	**Unit**	**Test Standard**
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**5 - 8**	h	-
Melt temperature	**270 - 320**	°C	-
Mold temperature	**80 - 120**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Release agent

Special Characteristics
Opaque

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa