Panlite® LD-1000RM

PC — Teijin Chemicals Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.005**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.005**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2600**	MPa	ISO 527
Yield stress	**60**	MPa	ISO 527
Yield strain	**6**	%	ISO 527
Stress at break	**60**	MPa	ISO 527
Strain at break	**>50**	%	ISO 527
Flexural modulus, 23°C	**2400**	MPa	ISO 178
Flexural strength	**95**	MPa	ISO 178
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**40**	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Strength at Yield	**63**	MPa	ASTM D 638
Tensile Strength at Break	**65**	MPa	ASTM D 638
Elongation at Break	**110**	%	ASTM D 638
Flexural Modulus	**2450**	MPa	ASTM D 790
Flexural Strength	**95**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**780**	J/m	ASTM D 256
Izod Impact notched, 1/4 in	**110**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**128**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**137**	°C	ISO 75-1/-2
Vicat softening temperature, B	**139**	°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 thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested	**0.4**	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	**3.4**	-	IEC 62631-2-1
Relative permittivity, 1MHz	**3.4**	-	IEC 62631-2-1
Dissipation factor, 100Hz	**11**	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	**250**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	**1280**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4 - 8**	h	-
Melt temperature	**260 - 300**	°C	-
Mold temperature	**60 - 100**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets, White

Features
Light Reflecting

Applications
Electrical and Electronical

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