

**Panlite® L-1225LM**

PC

Teijin Chemicals Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	24	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
<b>ISO Data</b>			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	6	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	94	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	58	kJ/m <sup>2</sup>	ISO 179/1eA
<b>ASTM Data</b>			
Tensile Strength at Yield	63	MPa	ASTM D 638
Tensile Strength at Break	62	MPa	ASTM D 638
Elongation at Break	110	%	ASTM D 638
Flexural Modulus	2310	MPa	ASTM D 790
Flexural Strength	95	MPa	ASTM D 790
Rockwell Hardness	M 77	-	ASTM D 785
Izod Impact notched, 1/8 in	90	J/m	ASTM D 256
Izod Impact notched, 1/4 in	90	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°C	ISO 75-1/-2
Vicat softening temperature, B	142	°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	-
Glow Wire Flammability Index (GWFI)	850	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	3	mm	-
Glow Wire Ignition Temperature (GWIT)	875	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1.5	mm	-
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (2)	3	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	2.1	mm	-
Coefficient of Thermal Expansion, MD	70	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	70	E-6/K	ASTM D 696
<b>Electrical properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
<b>ISO Data</b>			
Relative permittivity, 100Hz	3.1	-	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

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Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	225	-	IEC 60112

<b>Optical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Light Transmittance	88	%	ASTM D 1003
Index of Refraction	1.58	-	ASTM D 542

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1200	kg/m <sup>3</sup>	ISO 1183
Water Absorption, Equilibrium	0.2	%	ASTM D 570

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

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Additives**

Release agent

**Special Characteristics**

Transparent

**Applications**

General Purpose

**Regional Availability**

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