

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
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	2350	MPa	ISO 178
Flexural strength	92	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	71	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	2130	MPa	ASTM D 638
Tensile Strength at Yield	62	MPa	ASTM D 638
Tensile Strength at Break	78	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	140	%	ASTM D 638
Compressive Strength	76	MPa	ASTM D 695
Flexural Modulus	2260	MPa	ASTM D 790
Flexural Strength	90	MPa	ASTM D 790
Rockwell Hardness	M 77	-	ASTM D 785
Izod Impact notched, 1/8 in	830	J/m	ASTM D 256
Izod Impact notched, 1/4 in	130	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	128	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	141	°C	ISO 75-1/-2
Vicat softening temperature, B	148	°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	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.9	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
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	3.1	-	IEC 62631-2-1

Panlite® L-1225Y

PC

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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	30	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112

ASTM Data

Dielectric Strength, Short Time	30	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.0004	-	ASTM D 150
Dissipation Factor, 1 MHz	0.009	-	ASTM D 150
Dielectric Constant, 60 Hz	2.95	-	ASTM D 150
Dielectric Constant, 1 MHz	2.9	-	ASTM D 150
Volume Resistivity	3E16	Ohm*cm	ASTM D 257
Arc Resistance	110	s	ASTM D 495

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

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

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

Characteristics**Processing**

Injection Molding

Special Characteristics

Transparent

Delivery form

Pellets

Applications

Automotive, General Purpose

Additives

Release agent

Regional Availability

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