



# Component - Plastics

File Number: E50075

## TEIJIN LIMITED RESIN AND PLASTIC

ENVIRONMENT QUALITY ASSURANCE DEPT, DIV 1, KASUMIGASEKI COMMON GATE, WEST TOWER, 2-1,  
KASUMIGASEKI 3-CHOME, CHIYODA-KU TOKYO 100-8585 JP



### Panlite: L-1225U(#)(f1), L-1225V(#)(f1), L-1225Z(#1)(f1)

Polycarbonate (PC), pellets, powder

(#) - Suffix optional

(#1) - May be suffixed with any one letter or two letters, except for following one letter "E, L or U", or two letters started with "E or L"

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

Flammability	Value	Test Method
Flame Rating		UL 94
1.9 mm, ALL	HB	
3.0 mm, ALL	HB	
6.0 mm, ALL	HB	
0.40 mm, ALL	V-2	
0.75 mm, ALL	V-2	
1.5 mm, ALL	V-2	
Flammability Classification		IEC 60695-11-10, -20
3.0 mm, ALL	HB40	
6.0 mm, ALL	HB40	
1.9 mm, ALL	HB75	
0.40 mm, ALL	V-2	
0.75 mm, ALL	V-2	
1.5 mm, ALL	V-2	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.40 mm	PLC 4	
0.75 mm	PLC 3	
1.5 mm	PLC 3	
1.9 mm	PLC 3	
3.0 mm	PLC 2	
6.0 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746
0.40 mm	PLC 3	
0.75 mm	PLC 1	
1.5 mm	PLC 1	
1.9 mm	PLC 1	
3.0 mm	PLC 1	
6.0 mm	PLC 1	
Comparative Tracking Index (CTI)	PLC 2	UL 746
Dielectric Strength	30 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 4	UL 746
Volume Resistivity	1.0E+16 ohms·cm	ASTM D257
Volume Resistivity	1.0E+16 ohms·cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Electric Strength	30 kV/mm	IEC 60243-1

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Thermal	Value	Test Method
RTI Elec		UL 746
0.40 mm	80.0 °C	
0.75 mm	125 °C	
1.5 mm	125 °C	
1.9 mm	125 °C	
3.0 mm	125 °C	
6.0 mm	125 °C	
RTI Imp		UL 746
0.40 mm	80.0 °C	
0.75 mm	115 °C	
1.5 mm	115 °C	
1.9 mm	115 °C	
3.0 mm	115 °C	
6.0 mm	115 °C	
RTI Str		UL 746
0.40 mm	80.0 °C	
0.75 mm	125 °C	
1.5 mm	125 °C	
1.9 mm	125 °C	
3.0 mm	125 °C	
6.0 mm	125 °C	
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042
Dimensional Stability	0.0 %	ISO 2796
Outdoor Suitability	f1	UL 746C

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