

# Panlite® L-1225Y

Polycarbonate  
TEIJIN LIMITED

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Panlite® L-1225Y is a Polycarbonate (PC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Panlite® L-1225Y are:

- Flame Rated
- Good Mold Release
- Low Viscosity

Typical application of Panlite® L-1225Y: Automotive

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E195100-101422438</a> • <a href="#">E244324-101516420</a> • <a href="#">E50075-312266</a> • <a href="#">E245526-101512718</a>
Search for UL Yellow Card	• <a href="#">TEIJIN LIMITED</a> • <a href="#">Panlite®</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Good Mold Release • Low Viscosity
Uses	• General Purpose
Automotive Specifications	• GM QK 005931 Color: Clear
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.20 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	11.0 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage		Internal Method
Across Flow : 4.00 mm	0.50 to 0.70 %	
Flow : 4.00 mm	0.50 to 0.70 %	
Water Absorption (23°C, 24 hr)	0.20 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2400 MPa	ISO 527-2/1
Tensile Stress (Yield)	62.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	6.0 %	ISO 527-2/50
Nominal Tensile Strain at Break	> 50 %	ISO 527-2/50
Flexural Modulus <sup>4</sup>	2350 MPa	ISO 178
Flexural Stress <sup>4</sup>	92.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	71 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	No Break	ISO 179
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	141 °C	ISO 75-2/B
1.8 MPa, Unannealed	128 °C	ISO 75-2/A
Vicat Softening Temperature	148 °C	ISO 306/B50



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Thermal	Nominal Value Unit	Test Method
CLTE		ISO 11359-2
Flow	7.0E-5 cm/cm/°C	
Transverse	7.0E-5 cm/cm/°C	
RTI Elec (1.5 mm)	125 °C	UL 746
RTI Imp (1.5 mm)	115 °C	UL 746
RTI Str (1.5 mm)	125 °C	UL 746
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+15 ohms·cm	IEC 60093
Electric Strength <sup>5</sup>	30 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
100 Hz	3.10	
1 MHz	3.00	
Dissipation Factor		IEC 60250
100 Hz	1.0E-3	
1 MHz	9.0E-3	
Comparative Tracking Index	250 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.9 mm	HB	
0.40 mm	V-2	
Glow Wire Flammability Index		IEC 60695-2-12
1.5 mm	850 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.5 mm	875 °C	
3.0 mm	850 °C	
Optical	Nominal Value Unit	Test Method
Refractive Index	1.585	ASTM D542
Transmittance (3000 µm)	88.0 %	ASTM D1003

**Notes**

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 2.0 mm/min

<sup>5</sup> short time test



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## Where to Buy

### Supplier

#### TEIJIN LIMITED

Tokyo, Japan

Telephone: +81-3-3506-4707

Web: <http://www.teijin.com/>

### Distributor

#### Calsak Polymers

Telephone: 800-743-2595

Web: <http://www.calsakpolymers.com/>

Availability: North America

#### CCC Plastics

Telephone: 800-465-6917

Web: <http://www.cccplastics.com/>

Availability: Canada, United States

#### ESSE International - OMYA

*ESSE International - OMYA is a Pan European distribution company. Contact ESSE International - OMYA for availability of individual products by country.*

Telephone: +33-1-30-80-56-56

Web: <http://www.omya.com>

Availability: Europe, Turkey

#### Resin Resource, Inc.

Telephone: 877-652-3431

Web: <http://www.resinresourceinc.com/>

Availability: North America

#### Ultrapolymers

*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Bosnia and Herzegovina, Bulgaria, Croatia, France, Hungary, Ireland, Macedonia, Romania, Serbia, Slovakia, Slovenia, United Kingdom

