

Panlite® LV-2250Y

TEIJIN LIMITED - Polycarbonate

Saturday, February 24, 2018

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Mold Release • Medium Viscosity		
Uses	• General Purpose		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	8.00	cm ³ /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)	61.0	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 ²	2300	MPa	ISO 178
Flexural Stress ²	91.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	76	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	142	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Unannealed)	129	°C	ISO 75-2/A
Vicat Softening Temperature	149	°C	ISO 306/B50
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	7.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (0.75 mm)	125	°C	UL 746
RTI Imp (0.75 mm)	115	°C	UL 746
RTI Str (0.75 mm)	125	°C	UL 746

Disclaimer:

- The numerical values described in the data sheet are typical numerical values produced with a standard test method, and they do not guarantee the product's performance in a particular application.
- The flammability as described in the data sheet is an evaluation that resulted from a small-scale test, and it cannot be applied as it is to evaluate the actual risk of fire.
- Please contact us if you wish to use the product in medical equipment, food containers and packaging, and toys.
- If you wish to use various additives (antibacterial agents, stabilizers and flame retardants) or coloring agents with this resin, please consult with Teijin Ltd. beforehand. However, please note that Teijin Ltd. does not offer any kind of guarantee or bear any responsibility with regards to using this resin in any of these applications.
- The contents of the data sheet may change without notice.
- For other details, please see the Material Safety Data Sheet (MSDS) before use.
- Please contact the Resin & Plastic Processing Business Unit of Teijin Ltd. for detailed data.
- The raw materials used in our products may be subject to regulations depending on the type of system that exists to manage chemical substances in places to which our products are delivered. In addition, a separate application may need to be filed depending on the brand. There are also cases where imports of our products are not approved. If you are an importer or exporter and intend to import or export our products to new destinations, please make sure you contact us for details of regulatory compliance in those destinations.

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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 ³	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
0.40 mm	V-2		
1.5 mm	V-2		
3.0 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
1.5 mm	875	°C	
3.0 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.5 mm	850	°C	
3.0 mm	875	°C	
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance (3000 μm)	88.0	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

³ short time test

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