

Panlite® K-1285ZH

Polycarbonate

TEIJIN LIMITED

Message:

Weather resistance

General Information			
UL YellowCard	E50075-241792	E244324-101516415	
Features	Low viscosity		
	Light stabilization		
	Good weather resistance		
Uses	General		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	4.60	cm³/10min	ISO 1133
Molding Shrinkage			Internal method
Transverse flow: 4.00mm	0.50 - 0.70	%	Internal method
Flow: 4.00mm	0.50 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	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 ¹	2350	MPa	ISO 178
Flexural Stress ²	94.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	90	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	141	°C	ISO 75-2/B
1.8 MPa, not annealed	130	°C	ISO 75-2/A
Vicat Softening Temperature	148	°C	ISO 306/B50
Linear thermal expansion coefficient			ISO 11359-2

Flow	7.0E-5	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5 mm)	130	°C	UL 746
RTI Imp (1.5 mm)	125	°C	UL 746
RTI (1.5 mm)	130	°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
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.10		IEC 60250
1 MHz	3.00		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		IEC 60250
1 MHz	1.0E-3		IEC 60250
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.38 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	88.0	%	ASTM D1003
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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