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Panlite® DV-5545H

TEIJIN LIMITED - Polycarbonate

General Information

Product Description			
Mineral filler reinforced, High flame resistant grade			
General			
Filler / Reinforcement	• Mineral		
Properties	• Flame Retardant	• Halogen Free	• High Rigidity
Uses	• Industrial Applications		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.20	%	
Flow : 4.00 mm	0.13	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 23°C)	60.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.50	%	ISO 527-2/5
Flexural Modulus [2] (23°C)	14500	MPa	ISO 178
Flexural Stress [2] (23°C)	110	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	4.0	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	100	°C	
CLTE - Flow	2.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	2.8E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5 mm)	80.0	°C	UL 746B
RTI Imp (1.5 mm)	80.0	°C	UL 746B
RTI Str (1.5 mm)	80.0	°C	UL 746B
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.5 mm)	V-1		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	5.0 to 8.0	hr
Processing (Melt) Temp	240 to 280	°C
Mold Temperature	50 to 80	°C

Notes

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

[2] 2.0 mm/min