

Panlite® E-8910

TEIJIN LIMITED - Polycarbonate

General Information

Product Description

EMI shield

General

Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Properties	• Creep Resistant • Electromagnetic Shielding (EMI) • High Rigidity
Uses	• Camera Applications • Industrial Applications
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 2.00 mm	0.30 to 0.60	%	
Flow : 2.00 mm	0.20 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	59.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	6.0	%	ISO 527-2/5
Flexural Modulus ² (23°C)	5350	MPa	ISO 178
Flexural Stress ² (23°C)	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	21	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	109	°C	
CLTE - Flow	2.5E-5 to 3.0E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	7.5E-5 to 8.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (0.8 mm)	80.0	°C	UL 746B
RTI Imp (0.8 mm)	80.0	°C	UL 746B
RTI Str (0.8 mm)	80.0	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	V-2		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	5.0 to 8.0	hr

Panlite® E-8910

TEIJIN LIMITED - Polycarbonate

Injection	Nominal Value	Unit
Processing (Melt) Temp	250 to 290	°C
Mold Temperature	60 to 100	°C

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 2.0 mm/min