

Panlite® EN-8515N

Polycarbonate

TEIJIN LIMITED

Message:

EMI shield (Phosphor type flame resistance)

General Information			
UL YellowCard	E50075-241745	E244324-101516653	
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Features	Electromagnetic Shielding (EMI)		
	Flame Retardant		
	Good Creep Resistance		
	High Rigidity		
Uses	Camera Applications		
	Electrical Parts		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 4.00 mm	0.25 to 0.45	%	
Flow : 4.00 mm	0.050 to 0.25	%	
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8100	MPa	ISO 527-2/1
Tensile Stress (Break)	60.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ¹	7600	MPa	ISO 178
Flexural Stress ²	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	25	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	108	°C	ISO 75-2/B
1.8 MPa, Unannealed	100	°C	ISO 75-2/A
Vicat Softening Temperature	111	°C	ISO 306/B50

CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Transverse	8.0E-5	cm/cm/°C	
RTI Elec (1.50 mm)	80.0	°C	UL 746
RTI Imp (1.50 mm)	80.0	°C	UL 746
RTI Str (1.50 mm)	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0	ohms	IEC 60093
Volume Resistivity	0.50	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
2.00 mm	5VA		
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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