Panlite® EN-8515N

PC-CF15 — Teijin Chemicals Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.1**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.3**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**8100**	MPa	ISO 527
Stress at break	**60**	MPa	ISO 527
Strain at break	**3**	%	ISO 527
Flexural modulus, 23°C	**7600**	MPa	ISO 178
Flexural strength	**100**	MPa	ISO 178
Charpy impact strength, +23°C	**25**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**10**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**100**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**108**	°C	ISO 75-1/-2
Vicat softening temperature, B	**111**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**20**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**80**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
Burning behav. 5V at thickness h	**5VA**	class	IEC 60695-11-20
Thickness tested	**2.0**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**0.005**	Ohm*m	IEC 62631-3-1
Surface resistivity	**6**	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	**1310**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**100**	°C	-
Pre-drying - Time	**5 - 8**	h	-
Melt temperature	**250 - 290**	°C	-
Mold temperature	**60 - 100**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Special Characteristics
Flame retardant

Features
Creep Resistance, EMI Attenuation/Shielding

Applications
Electrical and Electronical

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa