Panlite® E-8715

PC-CF15 — Teijin Chemicals Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.5**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**7700**	MPa	ISO 527
Stress at break	**63**	MPa	ISO 527
Strain at break	**3**	%	ISO 527
Flexural modulus, 23°C	**7300**	MPa	ISO 178
Flexural strength	**105**	MPa	ISO 178
Charpy impact strength, +23°C	**45**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**15**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**115**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**125**	°C	ISO 75-1/-2
Vicat softening temperature, B	**128**	°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-2**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**0.006**	Ohm*m	IEC 62631-3-1
Surface resistivity	**7**	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	**110**	°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