Panlite® BN-8120R

PC-CF20 — Teijin Chemicals Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.1**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.4**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**13000**	MPa	ISO 527
Stress at break	**135**	MPa	ISO 527
Strain at break	**1.5**	%	ISO 527
Flexural modulus, 23°C	**11500**	MPa	ISO 178
Flexural strength	**185**	MPa	ISO 178
Charpy impact strength, +23°C	**23**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**7**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**147**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**149**	°C	ISO 75-1/-2
Vicat softening temperature, B	**151**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**20**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**60**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
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	**10**	Ohm*m	IEC 62631-3-1
Surface resistivity	**100**	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	**120**	°C	-
Pre-drying - Time	**>5**	h	-
Melt temperature	**290 - 320**	°C	-
Mold temperature	**80 - 120**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Black

Special Characteristics
Flame retardant

Features
Creep Resistance

Applications
Electrical and Electronical

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