Panlite® B-4120R

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	**13600**	MPa	ISO 527
Stress at break	**125**	MPa	ISO 527
Strain at break	**1.5**	%	ISO 527
Flexural modulus, 23°C	**12000**	MPa	ISO 178
Flexural strength	**185**	MPa	ISO 178
Charpy impact strength, +23°C	**28**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**8**	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	**152**	°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 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	**1280**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**5 - 8**	h	-
Melt temperature	**270 - 320**	°C	-
Mold temperature	**80 - 120**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Black

Special Characteristics
Flame retardant, Phosphorus-free

Features
Creep Resistance

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

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