Bayblend® T88 GF-20 RE

(PC+SAN)-GF20 Covestro Deutschland AG

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**14**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.4**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**7200**	MPa	ISO 527
Yield stress	**120**	MPa	ISO 527
Yield strain	**2.4**	%	ISO 527
Stress at break	**120**	MPa	ISO 527
Strain at break	**2.4**	%	ISO 527
Izod impact strength, +23°C	**38**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**8**	kJ/m²	ISO 180/1A
Izod notched impact strength	**8**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**119**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**129**	°C	ISO 75-1/-2
Vicat softening temperature, B	**128**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**30**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**65**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	**3.3**	-	IEC 62631-2-1
Relative permittivity, 1MHz	**3.2**	-	IEC 62631-2-1
Dissipation factor, 100Hz	**25**	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	**85**	E-4	IEC 62631-2-1
Volume resistivity	**1E14**	Ohm*m	IEC 62631-3-1
Surface resistivity	**1E17**	Ohm	IEC 62631-3-2
Electric strength	**35**	kV/mm	IEC 60243-1
Comparative tracking index	**150**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	**0.4**	%	Sim. to ISO 62
Humidity absorption	**0.2**	%	Sim. to ISO 62
Density	**1290**	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	**260**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**540**	mm/s	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**95 - 110**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**260 - 280**	°C	-

Mold temperature	**70 - 90**	°C	-
Zone 1	**230 - 240**	°C	-
Zone 2	**235 - 245**	°C	-
Zone 3	**240 - 270**	°C	-
Nozzle temperature	**265 - 275**	°C	-
Back pressure	**5 - 15**	MPa	-

Characteristics

Processing
Injection Molding

Special Characteristics
U.V. stabilized or stable to weather

Features
Thermal Stability

Certifications
Contains renewable resources, ISCC Plus

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