Bayblend® T90 MF-20

(PC+SAN)-I-T20 Covestro Deutschland AG

Product Texts

- Rubber modified (PC SAN) blend
- 20 % mineral filled
- Vicat/B 120 temperature = 130 °C
- very good flow
- reduced coefficient of thermal expansion
- tensile modulus = 4900 MPa
- good heat resistance

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**12**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**4900**	MPa	ISO 527
[C] Yield stress	**60**	MPa	ISO 527
[C] Yield strain	**3.2**	%	ISO 527

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**111**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**127**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**128**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**40**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**56**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.3**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3.2**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**15**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**32**	E-4	IEC 62631-2-1
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
[C] Electric strength	**35**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**225**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.5**	%	Sim. to ISO 62
[C] Humidity absorption	**0.2**	%	Sim. to ISO 62
[C] Density	**1290**	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	**260**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**240**	mm/s	ISO 294

[C]: CAMPUS

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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**100 - 110**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**240 - 280**	°C	-
Mold temperature	**70 - 100**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Release agent

Special Characteristics
High impact or impact modified

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

Other text information

Injection molding
PREPROCESSING
Max. Water content: 0.02 %
Drying temperature: 100 - 110 °C
(depending on the grade 10°C below the Vicat VST/B120 temperature, but not higher as the recommended values).
Drying time:
Circulating air drying oven (50 % fresh air) 4-8 h
Fresh air dryer (high speed dryer) 2-4 h
Dry air dryer 2-4 h

PROCESSING
Melt temperature: 240-280 °C
Mold temperature: 70-100 °C

Use open nozzle.

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