Bayblend® T88 GF-20 HI

(PC+SAN)-I-GF20

Covestro Deutschland AG

- Rubber modified (PC+SAN) blend
- 20% glass fiber filled
- Vicat/B 120 temperature = 134 °C
- tensile modulus = 6000 MPa
- optimized heat ageing- and UV-stability
- very good flow
- for demanding applications in the automotive interior

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	cm³/10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6000	MPa	ISO 527
Stress at Break	100	MPa	ISO 527
Strain at Break	3	%	ISO 527
Impact Strength (Charpy), +23°C	43	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	50	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	13	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	5500	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	12	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	9	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Impact Strength (Izod), 23°C	40	kJ/m²	ISO 180/1U
Ball Indentation Hardness	125	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	126	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	137	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	132	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	85	E-6/K	ISO 11359-1/-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1280	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	100 - 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	-

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Characteristics

Processing
Injection Molding

Special Characteristics
Impact modified, UV stablized, Heat aging stabilized

Applications
Automotive