BERGAMID® A70C20

PA66-CF20 — Avient Corporation

Product Texts

BERGAMID A70C20, PA66 reinforced
10% carbon fibre, general-purpose injection molding grades

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**11000 / 16000**	MPa	ISO 527
Stress at break	**150 / 220**	MPa	ISO 527
Strain at break	**6 / 3**	%	ISO 527
Charpy impact strength, +23°C	**65 / 55**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**- / 45**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**15 / 12**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**261 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**245 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**250 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**20 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**70 / ***	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.6 / ***	mm	-
Burning behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-

Other properties	dry / cond	Unit	Test Standard
Water absorption	**6.8 / ***	%	Sim. to ISO 62
Humidity absorption	**2.2 / ***	%	Sim. to ISO 62
Density	**- / 1220**	kg/m³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	**150 / ***	cm³/g	ISO 307, 1157, 1628

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	**280**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294

Characteristics

Processing
Injection Molding

Special Characteristics
Increased electrical conductivity, Anti-static

Delivery form
Pellets

Regional Availability
Europe

Other text information

Injection Molding
PREPROCESSING
Max. Water Content 0,1%
Pre-Drying: 80°C 4 Hours
PROCESSING
Melt Temperature 280-300°C
Mould Temperature 80-90°C