

Vitane R 9918

TPU-GF20

geba Kunststoffcompounds GmbH

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Strain at break	18	%	ISO 527
Flexural modulus, 23°C	1500	MPa	ISO 178
Flexural modulus	2800	MPa	ISO 178
Flexural modulus temperature	-30	°C	-
Flexural strength	50	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	45	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	22	kJ/m ²	ISO 179/1eA
Abrasion resistance	80	mm ³	ISO 4649
Shore D hardness	65	-	ISO 7619-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	130	°C	ISO 75-1/-2
Vicat softening temperature, B	146	°C	ISO 306
Coeff. of linear therm. expansion, parallel	10.3	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	114	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	1300	kg/m ³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	220	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.02	%	-
Melt temperature	210 - 240	°C	-
Mold temperature	40 - 80	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	210 - 220	°C	-
Zone 2	210 - 220	°C	-
Zone 3	220 - 230	°C	-
Nozzle temperature	230 - 240	°C	-

Characteristics**Processing**

Injection Molding

Features

Acoustical Barrier Properties, Good Adhesion, Thermal Stability

Chemical Resistance

Oil Resistance

Applications

Automotive, Sports Equipment

Regional Availability

Europe