

Vitane R 3906

TPU-GF10

geba Kunststoffcompounds GmbH

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	750	MPa	ISO 527
Impact Strength (Charpy), +23°C	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	65	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	65	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	5.6	kJ/m ²	ISO 179/1eA
Flexural strength	28.5	MPa	ISO 178
Shore Hardness D (15s)	62	-	ISO 868

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1290	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	80	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	210 - 230	°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	220 - 230	°C	-

Characteristics

Processing

Injection Molding

Chemical Resistance

Oil Resistance

Features

Acoustical Barrier Properties, Good Adhesion, Thermal Stability

Applications

Automotive, Sports Equipment