Celanese
The chemistry inside innovation™

CELCON® GC20

Celcon® GC20 is a glass coupled formulation containing 20% glass fiber reinforcement for improved strength and stiffness (for even better mechanical properties; please consider Hostaform® C 9021 GV1/20).
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Product information

Part Marking Code	POM	ISO 11469

Typical mechanical properties

Tensile Modulus	7300	MPa	ISO 527-1/-2
Stress at break, 5mm/min	99	MPa	ISO 527-1/-2
Strain at break, 5mm/min	2.2	%	ISO 527-1/-2
Flexural Modulus	7000	MPa	ISO 178
Flexural Strength	130	MPa	ISO 178
Charpy impact strength, 23°C	30	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	40	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	6	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	5.2	kJ/m²	ISO 180/1A

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	160	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	43	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2

Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.8	%	Sim. to ISO 62
Density	1540	kg/m³	ISO 1183

Injection

Drying Temperature	100 - 120	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Max. mould temperature	90 - 120	°C
Back pressure	2	MPa
Injection speed	slow	

Processing Texts

Pre-drying	Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.

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Other Approvals

Other Approvals

OEM	Specification
Ford	WSB-M4D883-A1