

Hostaform LGC 90-QX - POM

Description

Material code according to ISO 1043-1: POM Acetal copolymer reinforced with 25 weight percent long glass fibers. The fibers are chemically coupled to the POM matrix. The pellets are cylindrical and normally as well as the embedded fibers 10 mm long. Parts molded of CELSTRAN have outstanding mechanical properties such as high strength and stiffness combined with high heat deflection. The notched impact strength is increased at elevated and low temperatures due to the fiber skeleton built in the parts. The long fiber reinforcement reduces creep significantly. The very isotropic shrinkage in the molded parts minimizes the warpage. Complex parts can be manufactured with high reproducibility by injection molding. Application field: Functional/structural parts for automotive

Physical properties	Value	Unit	Test Standard	
Density	1590	kg/m³	ISO 1183	
Mechanical properties	Value	Unit	Test Standard	
Tensile modulus	10000	MPa	ISO 527-2/1A	
Tensile stress at break, 50mm/min	170	MPa	ISO 527-2/1A	
Tensile strain at break, 5mm/min	2.36	%	ISO 527-2/1A	
Flexural modulus, 23°C	9200	MPa	ISO 178	
Flexural strength, 23°C	265	MPa	ISO 178	
Charpy notched impact strength, 23°C	35	kJ/m²	ISO 179/1eA	

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Necessary low maximum residual moisture content	0.15	%	-
Drying time	3	h	-
Drying temperature	80 - 90	°C	-
Temperature	Value	Unit	Test Standard
Feeding zone temperature	20 - 50	°C	-
Zone1 temperature	180 - 195	°C	-
Zone2 temperature	190 - 200	°C	-
Zone3 temperature	195 - 205	°C	-
Zone4 temperature	195 - 205	°C	-
Nozzle temperature	195 - 205	°C	-
Melt temperature	195 - 205	°C	-
Mold temperature	70 - 110	°C	-
Hot runner temperature	195 - 205	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	30	bar	-
Speed	Value	Unit	Test Standard
Injection speed	medium	-	-
Screw Speed	Value	Unit	Test Standard
Screw speed diameter, 40mm	50	RPM	-
Screw speed diameter, 55mm	35	RPM	-
Screw speed diameter, 75mm	25	RPM	-

Other text information

Pre-drying

It is normally not necessary to dry CELSTRAN POM. However, should there be surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required. A circulating air drying cabinet can be used for this purpose if the gra

Longer pre-drying times/storage

The product can then be stored in standard conditions until processed.





Hostaform LGC 90-QX - POM Characteristics Special Characteristics Pellets Product Categories Regional Availability Glass reinforced North America, Europe, Asia Pacific Processing Injection molding Contact Information

General Disclaimer

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