

BASF Capron® 8233G 33% Glass-Filled Nylon 6 (Conditioned) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

Capron 8233G is a 33% glass fiber reinforced polyamide 6 molding compound offering excellent strength, stiffness, high temperature performance and dimensional stability. It is also available in heat stabilized (Capron 8233G HS) and/or pigmented versions. Capron 8233G is generally recommended for applications such as power tool housings, weed trimmer components, gears, automotive housings and under hood applications. Data provided by Allied Signal. Processing: Max. water content 0.12%. Product is supplied in sealed containers and drying is not required. If drying becomes necessary, a dehumidifying or desiccant dryer operating at 85°C (185 °F). Is recommended. Drying time is dependent on moisture level. Melt Temperature: 270-295 degC (518-563 degF). Mold Temperature: 80-95 degC (176-203 degF). Injection and Packing Pressure: 35-125 bar (500-1500psi) This product can be processed over a wide range of mold temperatures; however, for applications where aesthetics critical, a mold surface temperature of 80-95 degC (176-203 degF) is required. Injection pressure controls the filling of the part and should be applied for 90% of ram travel. Packing pressure affects the final part and can be used effectively in controlling sink marks and shrinkage. It should be applied and maintained until the gate area is completely frozen off. Back pressure can be utilized to provide uniform melt consistency and reduce trapped air and gas. A maximum of 3.5 bar (50 psi) is recommended to minimize glass fiber breakage. Fast fill rates are recommended to insure uniform melt delivery to the cavity and prevent premature freezing. Surface appearance is directly affected by injection rate. Capron® is no longer a part of the BASF standard line. The BASF nylon products have been consolidated in the Ultramid ® line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Capron-8233G-33-Glass-Filled-Nylon-6-Conditioned-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	(Dry)
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data MD (Dry)
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO Data (Dry)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	125 MPa	18100 psi	ASTM data at 5 mm/min.
Tensile Strength, Yield	115 MPa	16700 psi	50 mm/min; Same value from ASTM and ISO test.
Elongation at Break	6.0 %	6.0 %	Nominal
	6.0 %	6.0 %	ASTM, 5 mm/min
Elongation at Yield	5.9 %	5.9 %	ISO Value at 50 mm/min.
	6.0 %	6.0 %	ASTM Value at 50 mm/min.
Tensile Modulus	5.84 GPa	847 ksi	same value from ASTM and ISO test.
Flexural Yield Strength	180 MPa	26100 psi	ASTM Data

Mechanical Properties	Metric MPa	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	(Dry)
Processing Properties	Metric	English	Comments
Drying Temperature	85.0 °C	185 °F	See Materials Notes

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