

BASF Capron® GR30 20% Glass-Filled Nylon 6 (Conditioned) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Capron GR30 is a 30% glass reinforced polyamide 6 injection molding compound. IT is also available in heat stabilized (Capron GR30 HS) and/or pigmented versions. The glass fiber reinforcement enhances performance while maintaining good surface appearance. It demonstrates high toughness, strength and creep resistance. Wear and chemical resistance is very good to greases, oils, gasoline and hydrocarbons. Capron GR30 is generally recommended for applications where higher resistance and strength are needed such as linkage housings. 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-GR30-20-Glass-Filled-Nylon-6-Conditioned-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	(Dry)
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data MD (Dry)
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO Data (Dry)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	115 MPa	16700 psi	ASTM data at 5 mm/min.
Tensile Strength, Yield	107 MPa	15500 psi	ISO value at 50 mm/min.
	110 MPa	16000 psi	ASTM value at 50 mm/min.
Elongation at Break	6.0 %	6.0 %	Nominal
	6.0 %	6.0 %	ASTM, 5 mm/minI
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 Mechanical Properties	4.92 GPa Metric	714 ksi English	same value from ASTM and ISO test. Comments
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Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	(Dry)

Processing Properties	Metric	English	Comments
Processing Temperature	275 °C	527 °F	See Materials Notes
Mold Temperature	95.0 °C	203 °F	See Materials Notes
Drying Temperature	85.0 °C	185 °F	See Materials Notes

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