

BASF Capron® 8334G Impact Modified, 40% Glass-Filled Nylon 6 (Conditioned) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Filled, Impact Grade

Material Notes:

Capron 8334G is a heat stabilized, 40% glass fiber reinforced polyamide 6 molding compound developed for applications requiring a high level of stiffness combined with excellent impact performance. It is also available in heat stabilized (Capron 8334G HS) and/or pigmented versions. Capron 8334G is generally recommended for applications such as power tool housings and chain saw 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-8334G-Impact-Modified-40-Glass-Filled-Nylon-6-Conditioned-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	(Dry)
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM Data MD (Dry)
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO Data (Dry)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	138 MPa	20000 psi	ISO value at 5mm/min.
	140 MPa	20300 psi	ASTM data at 5 mm/min.
Tensile Strength, Yield	140 MPa	20300 psi	50 mm/min; Same value from ASTM and ISO test.
Elongation at Break	4.3 %	4.3 %	Nominal
	4.5 %	4.5 %	ASTM, 5 mm/min
Elongation at Yield	4.0 %	4.0 %	ASTM Value at 50 mm/min.
	4.1 %	4.1 %	ISO Value at 50 mm/min.

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	195 MPa	28300 psi	ASTM Data
Flexural Modulus	6.20 GPa	899 ksi	ASTM Data

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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