

BASF Capron® 8334G Impact Modified, 40% Glass-Filled Nylon 6 (Dry) (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-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO data
Water Absorption	0.80 %	0.80 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	1.4 %	1.4 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	4.8 %	4.8 %	in water; 23°C; ISO data
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ISO data
	0.0020 cm/cm	0.0020 in/in	ASTM data MD
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	190 MPa	27600 psi	Same value from ASTM and ISO tests; 5 mm/min.
Elongation at Break	2.5 %	2.5 %	ASTM, 5 mm/minl
	2.6 %	2.6 %	ISO, 5 mm/minl

Tensile Modulus Mechanical Properties	12.0 GPa Metric	1740 ksi English	same value from ASTM and ISO test. Comments
Flexural Yield Strength	260 MPa	37700 psi	ASTM Data
Flexural Modulus	9.20 GPa	1330 ksi	ISO Value
	10.345 GPa	1500.4 ksi	ASTM Value
Poissons Ratio	0.35	0.35	ISO data
Shear Modulus	4.40 GPa	638 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	10.6 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ISO data
CTE, linear, Transverse to Flow	74.0 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	41.1 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ISO data
Melting Point	220 $^{\circ}\text{C}$	428 $^{\circ}\text{F}$	ASTM and ISO test
Deflection Temperature at 0.46 MPa (66 psi)	219 $^{\circ}\text{C}$	426 $^{\circ}\text{F}$	ISO data
Deflection Temperature at 1.8 MPa (264 psi)	205 $^{\circ}\text{C}$	401 $^{\circ}\text{F}$	ISO data
	210 $^{\circ}\text{C}$	410 $^{\circ}\text{F}$	ASTM Data
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	ISO data

Processing Properties	Metric	English	Comments
Processing Temperature	275 $^{\circ}\text{C}$	527 $^{\circ}\text{F}$	See Materials Notes
Mold Temperature	95.0 $^{\circ}\text{C}$	203 $^{\circ}\text{F}$	See Materials Notes
Drying Temperature	85.0 $^{\circ}\text{C}$	185 $^{\circ}\text{F}$	See Materials Notes

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