

## BASF Capron® 8332G Impact Modified, 25% Glass-Filled Nylon 6 (Dry) (discontinued \*\*)

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

### Material Notes:

Capron 8332G is a 25% glass reinforced, impact modified polyamide 6 injection molding compound developed for applications requiring improved dry as molded toughness in combination with a balance of strength, stiffness and excellent moldability/surface aesthetics. It is also available in heat stabilized (Capron 8332G HS) and/or pigmented versions. Capron 8332G is generally recommended for applications such as wheel chair wheels, industrial wheel hubs and power tool 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-8332G-Impact-Modified-25-Glass-Filled-Nylon-6-Dry-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_BASF-Capron-8332G-Impact-Modified-25-Glass-Filled-Nylon-6-Dry-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in <sup>3</sup>	ISO data
Water Absorption	1.1 %	1.1 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	1.7 %	1.7 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	6.3 %	6.3 %	in water; 23°C; ISO data
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM Data MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	138 MPa	20000 psi	ISO data
Elongation at Break	4.0 %	4.0 %	ISO, 5 mm/minl
Tensile Modulus	7.41 GPa	1070 ksi	same value from ASTM and ISO test.
Flexural Yield Strength	210 MPa	30500 psi	ASTM Data
Flexural Modulus	2.90 GPa	421 ksi	ASTM Data

<b>Poissons Ratio Mechanical Properties</b>	<b>0.35 Metric</b>	<b>0.35 English</b>	<b>ISO data Comments</b>
Shear Modulus	2.70 GPa	392 ksi	calculated
Charpy Impact, Notched	1.70 J/cm <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	ISO Data

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melting Point	220 °C	428 °F	ASTM and ISO test
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO data
	210 °C	410 °F	ASTM Data

<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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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