

BASF Capron® 8232G HS 25% Glass-Filled Nylon 6 (Dry) (discontinued **)

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

Material Notes:

Capron 8232G HS is a heat stabilized, 25% glass fiber reinforced nylon 6 molding compound offering excellent strength, stiffness, high temperature performance and dimensional stability. Its resistance to creep under load is excellent along with its chemical resistance to greases, oils and hydrocarbons. Capron 8232G HS is ideally suited for applications such as safety helmet parts, washers, gears, engine and motor parts, chutes, and higher temperature environments. Data provided by Allied Signal. Processing: Max. water content 0.16%. 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: 250-280 degC (482-536 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-8232G-HS-25-Glass-Filled-Nylon-6-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO data
Water Absorption	1.2 %	1.2 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	7.1 %	7.1 %	in water; 23°C; ISO data
Viscosity Measurement	50	50	Formic Acid Viscosity; ISO data
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM Data MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	170 MPa	24700 psi	ASTM data at 5 mm/min.
	172 MPa	24900 psi	ISO value at 5mm/min.
Elongation at Break	3.5 %	3.5 %	ISO, 5 mm/minl
	3.5 %	3.5 %	ASTM, 5 mm/minl
Flexural Yield Strength	270 MPa	39200 psi	ASTM Data

Flexural Modulus Mechanical Properties	6.24 GPa Metric	905 ksi English	ISO Value Comments
	7.105 GPa	1031 ksi	ASTM Value
Poissons Ratio	0.35	0.35	ISO data

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM and ISO test
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	ISO data
Deflection Temperature at 1.8 MPa (264 psi)	201 °C	394 °F	ISO data
	204 °C	399 °F	ASTM Data
Flammability, UL94	HB @Thickness 0.710 mm	HB @Thickness 0.0280 in	
	HB @Thickness 6.00 mm	HB @Thickness 0.236 in	

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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