

BASF Capron® 8230G HS 6% Glass-Filled Nylon 6 (Dry) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled

Material Notes:

Capron 8230G HS is a heat stabilized, 6% nylon 6 molding compound offering improved stiffness and dimensional stability in thin sections. It exhibits a combination of strength, stiffness and performance under load. It maintains excellent chemical resistance to greases, oils and hydrocarbons. It is available in natural and black. Capron 8230G HS is generally recommended for applications such as gears and consumer weed trimmer parts. ASTM Callout PA220 G06 A29140 UB032. 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-8230G-HS-6-Glass-Filled-Nylon-6-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO data
Water Absorption	1.5 %	1.5 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	2.5 %	2.5 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	8.9 %	8.9 %	in water; 23°C; ISO data
Viscosity Measurement	50	50	Formic Acid Viscosity; ISO data
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM Data MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	90.0 MPa	13100 psi	Same value from ASTM and ISO tests; 5 mm/min.
Elongation at Break	4.3 %	4.3 %	ISO, 5 mm/minl
	5.0 %	5.0 %	ASTM, 5 mm/minl
Flexural Yield Strength	125 MPa	18100 psi	ASTM Data
Flexural Modulus	3.44 GPa	499 ksi	ISO Value

Mechanical Properties	Metric Pa	English	Comments
Poissons Ratio	0.35	0.35	ISO data
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO Data

Thermal Properties	Metric	English	Comments
CTE, linear	59.0 μm/m-°C	32.8 μin/in-°F	ASTM data
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	ASTM and ISO test
Deflection Temperature at 1.8 MPa (264 psi)	192 °C	378 °F	ASTM Data
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China