BASF Capron® SEG3 H1 15% Glass-Filled Nylon 6 (Dry) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Capron SEG3 H1 is a 15% glass reinforced nylon 6 injection molding compound exhibiting. It exhibits exceptional surface aesthetics at the slower fill speeds associated with the gas assist injection molding process. It maintains excellent strength, stiffness, high temperature performance and dimensional stability. Other attributes are: inherent chemical resistance, particularly to greases, oils and hydrocarbons.Capron SEG3 H1 is generally recommended for applications such as metal replacements, particularly thinwall parts requiring high flow.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-SEG3-H1-15-Glass-Filled-Nylon-6-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM Data MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 MPa	17400 psi	ASTM data at 5 mm/min.
Flexural Yield Strength	190 MPa	27600 psi	ASTM Data
Flexural Modulus	5.10 GPa	740 ksi	ASTM Data

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM test
Deflection Temperature at 0.46 MPa (66 psi)	186 °C	367 °F	ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	214 °C	417 °F	ASTM Data

Processing Properties	Metric	English	Comments

Processing Properties	Metric	English	Comments
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