

BASF Capron® 8231G 14% Glass-Filled Nylon 6 (Conditioned) (discontinued **)

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

Material Notes:

Capron 8231G is a 14% glass fiber reinforced polyamide 6 molding compound possessing a balance of engineering properties combined with excellent processability and surface aesthetics. It is also available in heat stabilized (Capron 8231G HS) and/or pigmented versions. Capron 8231G is ideally suited for more demanding performance 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-8231G-14-Glass-Filled-Nylon-6-Conditioned-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	(Dry)
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM Data MD (Dry)
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO Data (Dry)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ASTM data at 5 mm/min.
Tensile Strength, Yield	70.0 MPa	10200 psi	ASTM value at 50 mm/min.
	72.0 MPa	10400 psi	ISO value at 50 mm/min.
Elongation at Break	8.5 %	8.5 %	Nominal
	9.0 %	9.0 %	ASTM, 5 mm/min
Elongation at Yield	5.6 %	5.6 %	ISO Value at 50 mm/min.
	6.0 %	6.0 %	ASTM Value at 50 mm/min.
Tensile Modulus	2.69 GPa	390 ksi	same value from ASTM and ISO test.

Flexural Yield Strength Mechanical Properties	100 MPa Metric	14500 psi English	ASTM Data Comments
Flexural Modulus	2.40 GPa	348 ksi	ASTM Data

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	(Dry)

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 V	400 V	ISO data

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