BASF Capron® 5202CQ Blend HS Blend Nylon 66 (Dry) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized

Material Notes:

Capron 5202CQ HS Blend is a heat stabilized, blended polyamide 6,6 injection molding homopolymer developed for fast molding cycles. It is also available in pigmented versions.Capron 5202CQ HS Blend is generally recommended for applications such as aerosol valve bodies, stems, and actuators.Data provided by Allied Signal.Processing: Max. water content 0.25%. 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: 280-305 degC (536-581 degF). Mold Temperature: 80-95 degC (176-203 degF). Injection and Packing Pressure: 35-125 bar (500-1500psi) A mold temperature of 80-95 degC (176-203 degF) is recommended, but temperatures of as low as 45 degC (113 degF) and as high as 105 degC (221 degF) can be used where applicable. 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. Fast fill rates are recommended to insure uniform melt delivery to the cavity and prevent premature freezing.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-5202CQ-Blend-HS-Blend-Nylon-66-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in³	ISO data
Moisture Absorption at Equilibrium	2.5 %	2.5 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	8.5 %	8.5 %	in water; 23°C; ISO data
Viscosity Measurement	55	55	Formic Acid Viscosity; ISO data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	95.0 MPa	13800 psi	50 mm/min; Same value from ASTM and ISO test.
Elongation at Break	13 %	13 %	Nominal
	15 %	15 %	Nominal
Elongation at Yield	4.0 %	4.0 %	ISO Value at 50 mm/min.
	4.0 %	4.0 %	ASTM Value at 50 mm/min.
Tensile Modulus	3.70 GPa	537 ksi	same value from ASTM and ISO test.
Flexural Yield Strength	135 MPa	19600 psi	ASTM Data
Flexural Modulus	3.36 GPa	487 ksi	ASTM Data
Poissons Ratio	0.35	0.35	ISO data

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.40 GPa	203 ksi	Unreinforced

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ASTM and ISO test
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	ASTM Data
Flammability, UL94	V-2 @Thickness 0.700 mm	V-2 @Thickness 0.0276 in	
	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ISO data
Dielectric Strength	27.0 kV/mm	686 kV/in	ISO data
Comparative Tracking Index	600 V	600 V	ISO data

Processing Properties	Metric	English	Comments
Processing Temperature	290 °C	554 °F	See Materials Notes
Mold Temperature	80.0 °C	176 °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