

BASF Capron® 8200CQ Blend Nylon 6 (Dry) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Capron 8200CQ Blend is a medium viscosity, nylon 6 injection molding homopolymer possessing the combination of strength, stiffness and toughness properties as well as chemical and abrasion resistance. It is available in natural, heat stabilized and pigmented versions. Capron 8200CQ Blend is generally recommended for applications such as textile components, filter housings, hinges, gears, medical parts, cattle ear tags, wiring devices, plugs, receptacles, gears and connectors. 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: 240-280 degC (464-536 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 10 degC (50 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-8200CQ-Blend-Nylon-6-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO data
Water Absorption	1.6 %	1.6 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	2.6 %	2.6 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	9.2 %	9.2 %	in water; 23°C; ISO data
Viscosity Measurement	64	64	Formic Acid Viscosity; ISO data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	50 mm/min; Same value from ASTM and ISO test.
Elongation at Yield	4.0 %	4.0 %	ISO Value at 50 mm/min.
	4.0 %	4.0 %	ASTM Value at 50 mm/min.
Flexural Yield Strength	110 MPa	16000 psi	ASTM Data
Flexural Modulus	3.17 GPa	460 ksi	ASTM Data
Poissons Ratio	0.35	0.35	ISO data

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments ISO test
Deflection Temperature at 1.8 MPa (264 psi)	79.0 °C	174 °F	ASTM Data

Processing Properties	Metric	English	Comments
Drying Temperature	85.0 °C	185 °F	See Materials Notes

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