

BASF Capron® 8202C HS Nylon 6 (Conditioned) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized

Material Notes:

Capron 8202C HS is a heat stabilized, low viscosity, polyamide 6 injection molding homopolymer possessing a modified crystalline structure for increased property performance and faster cycles. It is also available in non-heat stabilized (Capron 8202C) and/or pigmented versions. Capron 8202C HS is generally recommended for applications such as gears, valves, fittings, insulators, bushings, slides, window hardware, wiring devices, textile components and furniture casters. ASTM Callout PA242. 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-8202C-HS-Nylon-6-Conditioned-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	(Dry)
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM Data MD (Dry)
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO Data (Dry)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ASTM data at 5 mm/min.
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM value at 50 mm/min.
	49.0 MPa	7110 psi	ISO value at 50 mm/min.
Elongation at Break	>= 50 %	>= 50 %	Nominal
	>= 100 %	>= 100 %	Nominal
Elongation at Yield	15 %	15 %	ASTM Value at 50 mm/min.
	22 %	22 %	ISO Value at 50 mm/min.
Tensile Modulus	1.36 GPa	197 ksi	same value from ASTM and ISO test.
Flexural Yield Strength	40.0 MPa	5800 psi	ASTM Data
Flexural Modulus			ASTM Data

Mechanical Properties	0.970 GPa Metric	141 ksi English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	(Dry)
Processing Properties	Metric	English	Comments
Processing Temperature	260 °C	500 °F	See Materials Notes
Mold Temperature	80.0 °C	176 °F	See Materials Notes
Drying Temperature	85.0 °C	185 °F	See Materials Notes

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