BASF Capron® 1202CQ Nylon 6 (Dry) (discontinued **)

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

Material Notes:

Capron 1202CQ is a blended low viscosity, polyamide 6 injection molding homopolymer, possessing a modified crystalline structure for increased property performance and faster cycles. It is also available in pigmented versions.Capron 1202CQ is generally recommended for applications such as furniture casters, gears, window hardware, end fittings, insulators, bushings, slides, valves, relays, wiring devices, and other electrical components.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-1202CQ-Nylon-6-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	ISO data
Water Absorption	1.6 %	1.6 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	2.6 %	2.6 %	
Water Absorption at Saturation	9.3 %	9.3 %	
Viscosity Measurement	48	48	Formic Acid Viscosity; ISO data
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM data MD
	0.013 cm/cm	0.013 in/in	ISO data
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 MPa	10900 psi	ASTM data at 5 mm/min.
Tensile Strength, Yield	90.0 MPa	13100 psi	50 mm/min; Same value from ASTM and ISO test.
Elongation at Break	10 %	10 %	ASTM, 5 mm/minl
	10 %	10 %	Nominal

Mechanical Properties	Metric	English	Comments
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	3.50 GPa	508 ksi	same value from ASTM and ISO test.
Flexural Yield Strength	130 MPa	18900 psi	ASTM Data
Flexural Modulus	3.17 GPa	460 ksi	ASTM Value
	3.20 GPa	464 ksi	ISO Value
Poissons Ratio	0.35	0.35	ISO data
Shear Modulus	1.30 GPa	189 ksi	calculated

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 µm/m-°C @Temperature 20.0 °C	45.0 µin/in-°F @Temperature 68.0 °F	ASTM data
Melting Point	220 °C	428 °F	ASTM and ISO test
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	ISO data
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ISO Data

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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