

BASF Capron® 8351 Impact Modified Nylon 6 (Conditioned) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Capron 8351 is a type 6 polyamide graft copolymer developed for injection molding applications requiring a high level of toughness combined with moderate flexibility and faster cycles. It is also available in heat stabilized (Capron 8351 HS) and/or pigmented versions. Capron 8351 is generally recommended for applications such as storage bins, spray gun and power tool handles, trim clips and fasteners, wall anchors, and automotive roof racks. Data provided by Allied Signal. Processing: Max. water content 0.2%. 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: 240-270 degC (464-518 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 10-95 degC (50-203 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-8351-Impact-Modified-Nylon-6-Conditioned-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	(Dry)
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	ASTM Data MD (Dry)
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ISO Data (Dry)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	33.0 MPa	4790 psi	ISO value at 50 mm/min.
	35.0 MPa	5080 psi	ASTM value at 50 mm/min.
Elongation at Break	>= 50 %	>= 50 %	Nominal
	>= 100 %	>= 100 %	Nominal
Elongation at Yield	10 %	10 %	ASTM Value at 50 mm/min.
	12 %	12 %	ISO Value at 50 mm/min.
Flexural Yield Strength	30.0 MPa	4350 psi	ASTM Data
Flexural Modulus	0.620 GPa	89.9 ksi	ASTM Data

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	220 °C Metric	428 °F English	(Dry) Comments
Processing Properties	Metric	English	Comments
Processing Temperature	280 °C	536 °F	See Materials Notes
Mold Temperature	70.0 °C	158 °F	See Materials Notes
Drying Temperature	85.0 °C	185 °F	See Materials Notes

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