BASF Capron® 8253 Impact Modified Nylon 6 (Conditioned) (discontinued **)

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

Material Notes:

Capron 8253 is an unfilled type 6 graft copolymer developed for both injection molding and extrusion applications. It is also available in heat stabilized (Capron 8253 HS) and/or pigmented versions. Copolymerization results in improved dry as molded toughness and increased flexibility to meet higher impact performance compared to conventional unreinforced homopolymers. Good nylon thermal and chemical properties are maintained along with good strength and stiffness retention.Capron 8253 is generally recommended for applications such as plugs, receptacles, flexible connector covers, weed trimmer components, clips, fasteners, flanges, key housings as well as many flexible tubing applications. ASTM Callout PA254 + PA0270 B40410.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 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-8253-Impact-Modified-Nylon-6-Conditioned-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in³	(Dry)
Linear Mold Shrinkage	0.012 cm/cm	0.012 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, Ultimate	60.0 MPa	8700 psi	ASTM data at 5 mm/min.
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM value at 50 mm/min.
	32.0 MPa	4640 psi	ISO value at 50 mm/min.
Elongation at Break	>= 50 %	>= 50 %	Nominal
	>= 100 %	>= 100 %	Nominal
Elongation at Yield	14 %	14 %	ISO Value at 50 mm/min.
	15 %	15 %	ASTM Value at 50 mm/min.
Tensile Modulus	0.730 GPa	106 ksi	same value from ASTM and ISO test.

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	30.0 MPa	4350 psi	ASTM Data
Flexural Modulus	0.670 GPa	97.2 ksi	ASTM Data

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	(Dry)

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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