

BASF Capron® 8203C Nylon 6 (Conditioned) (discontinued **)

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

Material Notes:

Capron 8203C is a high viscosity, nylon 6 extrusion compound, possessing a modified crystalline structure for increased property performance and faster set up for tubing and cable applications. It has high strength, stiffness and heat distortion temperature. It maintains excellent chemical resistance to greases, oils and hydrocarbons. It is available in natural, heat stabilized and pigmented versions. Capron 8203C is generally recommended for applications such as automotive tubing and cable liners. 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-8203C-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)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM test; 50 mm/min.
Elongation at Break	>= 100 %	>= 100 %	Nominal
Elongation at Yield	15 %	15 %	ASTM test at 50 mm/min.
Flexural Yield Strength	30.0 MPa	4350 psi	ASTM Data
Flexural Modulus	0.840 GPa	122 ksi	ASTM Data

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

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	
	80.0 - 95.0 °C	176 - 203 °F	temperatures as low as 10°C (50°F)

Mold Temperature Processing Properties	Metric	English	can be used where applicable, Comments
Drying Temperature	85.0 °C	185 °F	See Materials Notes
Injection Pressure	3.45 - 10.3 MPa	500 - 1500 psi	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China