

BASF Capron® 8362 HS BK-102 Impact Modified, 34% Mineral-Filled Nylon 6 (Dry) (discontinued **)

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

Material Notes:

Capron 8362 HS BK-102 is a pigmented black, 34% mineral reinforced, impact modified, heat stabilized nylon 6 injection molding compound exhibiting a high level toughness in combination with excellent processability and surface aesthetics. It possesses an excellent balance of strength and stiffness combined with a high level of drop weight impact as well as chemical resistance to greases, oils and hydrocarbons. Capron 8362 HS BK-102 is generally recommended for applications such as wheel covers and hubs, mirror housings, appliance components and power tool housings. ASTM Callout PA280 M34 A99200 KB063 UB036. Data provided by Allied Signal. Processing: Max. water content 0.12%. 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: 270-300 degC (518-572 degF). Mold Temperature: 80-95 degC (176-203 degF). Injection and Packing Pressure: 35-125 bar (500-1500psi) This product can be processed over a wide range of mold temperatures; however, for applications where aesthetics critical, a mold surface temperature of 80-95 degC (176-203 degF) is required. 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. Back pressure can be utilized to provide uniform melt consistency and reduce trapped air and gas. A maximum of 3.5 bar (50 psi) is recommended to minimize glass fiber breakage. Fast fill rates are recommended to insure uniform melt delivery to the cavity and prevent premature freezing. Surface appearance is directly affected by injection rate. 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-8362-HS-BK-102-Impact-Modified-34-Mineral-Filled-Nylon-6-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO data
Moisture Absorption at Equilibrium	1.6 %	1.6 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	5.8 %	5.8 %	in water; 23°C; ISO data
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ISO data
	0.010 cm/cm	0.010 in/in	ASTM data MD
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.0 MPa	10900 psi	ASTM value at 50 mm/min.
	76.0 MPa	11000 psi	ISO value at 50 mm/min.
Elongation at Break	17 %	17 %	Nominal

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	120 MPa	17400 psi	ASTM Data
Flexural Modulus	4.00 GPa	580 ksi	ISO Value
	4.30 GPa	624 ksi	ASTM Value
Poissons Ratio	0.35	0.35	ISO data
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO Data
	0.390 J/cm ²	1.86 ft-lb/in ²	ISO data
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM and ISO test
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	ASTM Data

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ISO data

Processing Properties	Metric	English	Comments
Processing Temperature	275 °C	527 °F	See Materials Notes
Mold Temperature	95.0 °C	203 °F	See Materials Notes
Drying Temperature	85.0 °C	185 °F	See Materials Notes

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