

BASF Capron® 8260 HS BK-102 40% Mineral-Filled Nylon 6 (Dry) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Mineral Filled

Material Notes:

Capron 8260 HS BK-102 is a heat stabilized, pigmented black, 40% mineral reinforced nylon 6 injection molding resin. It possesses high stiffness, dimensional stability and heat resistance combined with excellent processability including low warp and resistance to sink-mark formation. It maintains its inherent chemical resistance to greases, oils and hydrocarbons. Capron 8260 HS BK-102 is generally recommended for applications such as marine hardware, brackets, fittings, bobbins, office furniture, appliance components, and power tool housings. ASTM Callout PA220 M40 A9130 KB080 AA002. Data provided by Allied Signal. 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-8260-HS-BK-102-40-Mineral-Filled-Nylon-6-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO data
Water Absorption	1.1 %	1.1 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	1.6 %	1.6 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	5.7 %	5.7 %	in water; 23°C; ISO data
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ISO data
	0.0090 cm/cm	0.0090 in/in	ASTM data MD
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.0 MPa	12500 psi	ISO value at 50 mm/min.
	90.0 MPa	13100 psi	ASTM value at 50 mm/min.
Elongation at Break	10 %	10 %	Nominal
	10 %	10 %	Nominal
Elongation at Yield	3.0 %	3.0 %	ASTM Value at 50 mm/min.
	3.2 %	3.2 %	ISO Value at 50 mm/min.
Tensile Modulus	6.63 GPa	962 ksi	same value from ASTM and ISO test.
Flexural Modulus	5.00 GPa	725 ksi	ISO data
Poissons Ratio	0.35	0.35	ISO data

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ASTM data
Melting Point	220 $^{\circ}\text{C}$	428 $^{\circ}\text{F}$	ASTM and ISO test
Deflection Temperature at 0.46 MPa (66 psi)	197 $^{\circ}\text{C}$	387 $^{\circ}\text{F}$	ISO data
Deflection Temperature at 1.8 MPa (264 psi)	108 $^{\circ}\text{C}$	226 $^{\circ}\text{F}$	ISO Data
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	ISO data
Processing Properties	Metric	English	Comments
Processing Temperature	275 $^{\circ}\text{C}$	527 $^{\circ}\text{F}$	See Materials Notes
Mold Temperature	95.0 $^{\circ}\text{C}$	203 $^{\circ}\text{F}$	See Materials Notes

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