

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

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

Material Notes:

Capron 8260 is a 40% mineral reinforced polyamide 6 injection molding compound. It possesses high stiffness, dimensional stability and heat resistance combined with excellent processability including low warp and resistance to sink-mark formation. It is also available in heat stabilized (Capron 8260 HS) versions. It can be painted or chrome plated and is also available in pigmented versions. Capron 8260 is generally recommended for applications such as marine hardware, brackets, fittings, bobbins, office furniture, appliance components and power tool housings. ASTM Callout PA210 M40 A92120 KB080 AA002. 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: 270-295 degC (518-563 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-8260-40-Mineral-Filled-Nylon-6-Dry-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.291 g/cc	0.04664 lb/in ³	Melt 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, Ultimate	85.0 MPa	12300 psi	ASTM data at 5 mm/min.
Tensile Strength, Yield	90.0 MPa	13100 psi	50 mm/min; Same value from ASTM and ISO test.

Elongation at Break Mechanical Properties	10 % Metric	10 % English	Nominal Comments
	10 %	10 %	Nominal
Elongation at Yield	4.0 %	4.0 %	ISO Value at 50 mm/min.
	4.0 %	4.0 %	ASTM Value at 50 mm/min.
Tensile Modulus	6.63 GPa	962 ksi	same value from ASTM and ISO test.
Flexural Yield Strength	140 MPa	20300 psi	ASTM Data
Flexural Modulus	5.00 GPa	725 ksi	ISO Value
	5.76 GPa	835 ksi	ASTM Value
Poissons Ratio	0.35	0.35	ISO data
Shear Modulus	2.50 GPa	363 ksi	calculated
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO Data
	0.270 J/cm ²	1.28 ft-lb/in ²	ISO data
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 μm/m-°C	25.6 μin/in-°F	ISO data
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	58.0 μm/m-°C	32.2 μin/in-°F	ISO data
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	2.00 J/g-°C	0.478 BTU/lb-°F	Melt value
Thermal Conductivity	0.281 W/m-K	1.95 BTU-in/hr-ft ² -°F	Melt
Melting Point	220 °C	428 °F	ASTM and ISO test
Deflection Temperature at 0.46 MPa (66 psi)	197 °C	387 °F	ISO data
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	ISO data
	125 °C	257 °F	ASTM Data

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ISO data
Dielectric Strength	22.0 kV/mm	559 kV/in	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

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