

BASF Capron® 8331G HS Blend Impact Modified, 14% Glass-Filled Nylon 6 (Dry) (discontinued **)

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

Material Notes:

Capron 8331G HS Blend is a 14% glass fiber reinforced, heat stabilized, polyamide 6 molding compound developed for applications requiring improved toughness in combination with a balance of strength, stiffness and excellent moldability/surface aesthetics. It is also available in non-heat stabilized (Capron 8331G Blend) and/or pigmented versions. Capron 8331G HS Blend is generally recommended for application such as front wheel chair wheels, bicycle wheels, power tool housings, clips and fasteners, hose clamps and window hardware. 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-8331G-HS-Blend-Impact-Modified-14-Glass-Filled-Nylon-6-Dry-nbspdiscontinued.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------|---------------------------|--------------------------|
| Density | 1.19 g/cc | 0.0430 lb/in ³ | ISO data |
| Water Absorption | 1.2 % | 1.2 % | 24 hrs; ISO data |
| Moisture Absorption at Equilibrium | 1.8 % | 1.8 % | 50% RH; 23°C; ISO data |
| Water Absorption at Saturation | 7.0 % | 7.0 % | in water; 23°C; ISO data |
| Linear Mold Shrinkage, Flow | 0.0050 cm/cm | 0.0050 in/in | ASTM and ISO value |
| Linear Mold Shrinkage, Transverse | 0.011 cm/cm | 0.011 in/in | ISO Data |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------|-----------|---|
| Tensile Strength, Ultimate | 90.0 MPa | 13100 psi | Same value from ASTM and ISO tests; 5 mm/min. |
| Elongation at Break | 5.0 % | 5.0 % | ISO, 5 mm/minl |
| | 5.0 % | 5.0 % | ASTM, 5 mm/minl |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|---------------|----------------|-----------------|
| Flexural Yield Strength | 140 MPa | 20300 psi | ASTM Data |
| Poissons Ratio | 0.35 | 0.35 | ISO data |
| Shear Modulus | 1.60 GPa | 232 ksi | calculated |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|---------------------------|-------------------|
| Melting Point | 220 °C | 428 °F | ASTM and ISO test |
| Deflection Temperature at 0.46 MPa (66 psi) | 210 °C | 410 °F | ISO data |
| Deflection Temperature at 1.8 MPa (264 psi) | 190 °C | 374 °F | ISO data |
| | 210 °C | 410 °F | ASTM Data |
| Flammability, UL94 | HB @Thickness 3.00 mm | HB @Thickness 0.118 in | |

| 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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