

## BASF Capron® SEG7 35% Glass-Filled Nylon 6 (Dry) (discontinued \*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

### Material Notes:

Capron SEG7 is an unfilled injection molding type 6 nylon graft copolymer. It has superior impact resistance and flow especially for thinner walled parts and long flow lengths. Copolymerization results in varying levels of toughness and flexibility combined with excellent thermal and chemical properties. It higher impact performance than of conventional nylon homopolymers while maintaining good strength, chemical resistance and stiffness. It's also available in color versions. Capron SEG7 is generally recommended for applications such as power tool housings. 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-SEG7-35-Glass-Filled-Nylon-6-Dry-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_BASF-Capron-SEG7-35-Glass-Filled-Nylon-6-Dry-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ISO data
Water Absorption	1.0 %	1.0 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	1.7 %	1.7 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	6.3 %	6.3 %	in water; 23°C; ISO data
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	185 MPa	26800 psi	Same value from ASTM and ISO tests; 5 mm/min.
Elongation at Break	3.5 %	3.5 %	ASTM, 5 mm/minl
	3.5 %	3.5 %	ISO, 5 mm/minl
Flexural Yield Strength	290 MPa	42100 psi	ASTM Data
Flexural Modulus	9.67 GPa	1400 ksi	ASTM Data

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM and ISO test
Flammability, UL94	HB @Thickness 0.710 mm	HB @Thickness 0.0280 in	

Processing Properties	Metric	English	Comments
Drying Temperature	85.0 °C	185 °F	See Materials Notes

## Contact Songhan Plastic Technology Co.,Ltd.

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