

## BASF Capron® 8259 Impact Modified Nylon 6 (Dry) (discontinued \*\*)

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

### Material Notes:

Capron 8259 is a type 6 nylon injection molding graft copolymer developed for fastener applications requiring to abusive impact molding combined with a high level of pullout strength. It exhibits varying levels of toughness and flexibility combined with thermal and chemical resistance properties provided by the polyamide backbone. Capron 8259 is generally recommended for fastener applications. Data provided by Allied Signal. Processing: Max. water content 0.2%. 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: 240-270 degC (464-518 degF). Mold Temperature: 80-95 degC (176-203 degF). Injection and Packing Pressure: 35-125 bar (500-1500psi) A mold temperature of 80-95 degC (176-203 degF) is recommended, but temperatures of as low as 10 degC (50 degF) can be used where applicable. 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. Fast fill rates are recommended to insure uniform melt delivery to the cavity and prevent premature freezing. 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-8259-Impact-Modified-Nylon-6-Dry-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_BASF-Capron-8259-Impact-Modified-Nylon-6-Dry-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in <sup>3</sup>	ISO data
Water Absorption	1.3 %	1.3 %	24 hrs; ISO data
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; 23°C; ISO data
Water Absorption at Saturation	7.1 %	7.1 %	in water; 23°C; ISO data
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM Data MD

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.0 MPa	8560 psi	ISO value at 50 mm/min.
	60.0 MPa	8700 psi	ASTM value at 50 mm/min.
Elongation at Break	>= 100 %	>= 100 %	Nominal
Flexural Yield Strength	75.0 MPa	10900 psi	ASTM Data
Flexural Modulus	2.00 GPa	290 ksi	ASTM Data
Poissons Ratio	0.35	0.35	ISO data

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM and ISO test

Thermal Properties	Metric	English	Comments
Stress at Break (23°C)			See Material Data

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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