

# Ultramid® SEG8 BK-126

Polyamide 6

BASF Corporation

## Product Description

Ultramid SEG8 BK-126 is a 40% glass reinforced, pigmented black, injection molding type 6 nylon requiring high strength, surface aesthetics, and good processability. This product has excellent surface appearance while maintaining a good balance of physical properties, such as high strength, improved toughness, and chemical resistance. It features superior flow properties, and is suited for parts having thinner walls and those requiring long lengths. It shows lower pressure, temperature, and cycle time requirements than conventional grades.

## General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 40% Filler by Weight
Additive	• Heat Stabilizer
Features	<ul style="list-style-type: none"><li>• Good Abrasion Resistance</li><li>• Good Chemical Resistance</li><li>• Good Creep Resistance</li><li>• Good Dimensional Stability</li><li>• Good Flow</li><li>• Good Processability</li><li>• Good Stiffness</li><li>• Good Surface Finish</li><li>• Good Thermal Aging Resistance</li><li>• Good Toughness</li><li>• Heat Stabilized</li><li>• High Flow</li><li>• High Strength</li><li>• Low Viscosity</li><li>• Semi Crystalline</li></ul>
Uses	<ul style="list-style-type: none"><li>• Automotive Applications</li><li>• Furniture</li></ul>
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1450	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	160	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	2.1	%	ISO 527-2 <sup>2</sup>
Flexural Modulus (23°C)	10700	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	12.0	kJ/m <sup>2</sup>	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	197	°C	ISO 75-2 <sup>2</sup>
Melting Temperature (DSC)	220	°C	ISO 3146

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	270 to 295	°C
Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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