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**Technical Data Sheet**

**DYN-N6 Black**

**Nylon Type 6 Resin**

**Typical Compound Properties Value / Measure Test Methods**

**Physical Properties English Units Metric Units**

Density 1.13 g/cm3 1.13 g/cm3 ASTM D-792

**Mechanical Properties**

Izod Impact - Notched 1 ft-lb/in 53 J/m ASTM D-256  
 Tensile Strength @ Yield 10,500 psi 72 MPa ASTM D-638

Tensile Elongation @ Break 25 % 25 % ASTM D-638  
 Flexural Strength @ Yield 12,000 psi 83 MPa ASTM D-790

Flexural Modulus 450,000 psi 3,105 MPa ASTM D-790

**Thermal Properties**

DTUL @ 66 psi (455 kPa) 347 Deg. F 176 Deg. C ASTM D-648  
 @ 264 psi (1820 kPa) 145 Deg. F 63 Deg. C ASTM D-648

Melt Point 420.8 Deg. F 216 Deg. C

All tests are performed on dry as molded ASTM test bars.

**General Product Type Information**

DYN-N6, is also available with internal and external lubricants, UV stabilized and other modifications.  
 Manufactured with recycled content. Further information and details are available upon request.

**Processing Information**

**Temperatures F C**

Barrel	Rear	450 - 520	234 - 273
	Center	460 - 520	240 - 273
	Front	460 - 520	240 - 273
	Nozzle	480 - 520	251 - 273
	Mold	80 - 180	27 - 83

**Drying**

Type	Dehumidifier
Temperature	175°F
Time	2 - 4 hours
Max. % Moisture	0.2

The property values listed above have been obtained using laboratory controlled test methods. They are offered without guarantee since conditions under which the product is used are beyond our control. Therefore, Dynamic Polymer Solutions disclaims any liability for loss or damage incurred in connection with the use of this product. Optimum processing conditions will depend on such factors as machine size, screw design, part dimension, mold design, runner and gate design, and material residence time. These recommendations are intended only as a guide to achieve stable processing and good part quality.