



# Dynamic Polymer Solutions

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## Technical Data Sheet

### DYN-N6643G BK

#### Nylon Type 66, 43% Glass Fiber Reinforced

Typical Compound Properties	Value / Measure		Test Methods
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Physical Properties	English Units	Metric Units	
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Density	1.49 g/cm <sup>3</sup>	1.49 g/cm <sup>3</sup>	ASTM D-792
Ash Content	43 %	%	ASTM D-5630

Mechanical Properties			
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Izod Impact - Notched	1.9 ft-lb/in	102 J/m	ASTM D-256
Tensile Strength @ Yield	25,600 psi	177 MPa	ASTM D-638
Tensile Elongation @ Break	10 %	10 %	ASTM D-638
Flexural Strength @ Yield	38,500 psi	266 MPa	ASTM D-790
Flexural Modulus	1,560,700 psi	10,769 MPa	ASTM D-790

Thermal Properties			
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DTUL @ 66 psi (455 kPa)	430 Deg. F	210 Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	150 Deg. F	65 Deg. C	ASTM D-648
Melt Point	491 Deg. F	255 Deg. C	

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

General Product Type Information
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DYN-N6643G, 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
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Temperatures		F	C
Barrel	Rear	540 - 580	284 - 307
	Center	530 - 570	279 - 301
	Front	520 - 570	279 - 301
	Nozzle	510 - 560	268 - 296
	Mold	150 - 250	66 - 122

Drying
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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.