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**Technical Data Sheet**

**DYN-N6640M BK**

**Nylon type 66, 40% Mineral Filled Resin**

Typical Compound Properties	Value / Measure		Test Methods
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Physical Properties	English Units	Metric Units	
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Density	1.51 g/cm3	1.51 g/cm3	ASTM D-792
Ash Content	40 %	%	ASTM D-5630

Mechanical Properties			
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Izod Impact - Notched	0.85 ft-lb/in	45 J/m	ASTM D-256
Tensile Strength @ Yield	12,600 psi	87 MPa	ASTM D-638
Tensile Elongation @ Break	7 %	7 %	ASTM D-638
Flexural Strength @ Yield	21,000 psi	145 MPa	ASTM D-790
Flexural Modulus	1,100,000 psi	7,590 MPa	ASTM D-790

Thermal Properties			
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DTUL @ 66 psi (455 kPa)	473 Deg. F	245 Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	410 Deg. F	210 Deg. C	ASTM D-648
Melt Point	500 Deg. F	260 Deg. C	

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

General Product Type Information
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DYN-N6640M, 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
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Barrel	Rear	500 - 560	262 - 296
	Center	510 - 560	268 - 296
	Front	510 - 560	268 - 296
	Nozzle	500 - 550	262 - 290
	Mold	100 - 200	38 - 94

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.