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Technical Data Sheet

DYN-N643G BK

Nylon Type 6, 43% Glass Fiber Reinforced

Typical Compound Properties	Value / Measure		Test Methods
Physical Properties	English Units	Metric Units	
Density	1.45 g/cm ³	1.45 g/cm ³	ASTM D-792
Ash Content	43 %	%	ASTM D-5630
Mechanical Properties			
Izod Impact - Notched	2 ft-lb/in	107 J/m	ASTM D-256
Tensile Strength @ Yield	27,000 psi	186 MPa	ASTM D-638
Tensile Elongation @ Break	6 %	6 %	ASTM D-638
Flexural Modulus	1,675,500 psi	11,561 MPa	ASTM D-790
Thermal Properties			
DTUL @ 66 psi (455 kPa)	425 Deg. F	220 Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	405 Deg. F	209 Deg. C	ASTM D-648
Melt Point	421 Deg. F	216 Deg. C	

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

General Product Type Information

DYN-N643G, 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	460 - 540	240 - 284
	Center	480 - 560	251 - 296
	Front	480 - 560	251 - 296
	Nozzle	470 - 550	245 - 290
	Mold	175 - 205	80 - 97

Drying

Type	Dehumidifier
Temperature	180°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.