



Dynamic Polymer Solutions

Phone: (810) 326-1451 Fax: (586) 408-6363

www.dynamicpolymer.com

Technical Data Sheet

DYN-N6MI Black

Nylon Type 6 Medium Impact Resin

Typical Compound Properties	Value / Measure		Test Methods
Physical Properties			
	English Units	Metric Units	
Density	1.13 g/cm ³	1.13 g/cm ³	ASTM D-792
Mechanical Properties			
Izod Impact - Notched	3 ft-lb/in	160 J/m	ASTM D-256
Tensile Strength @ Yield	7,000 psi	48 MPa	ASTM D-638
Tensile Elongation @ Break	55 %	55 %	ASTM D-638
Flexural Strength @ Yield	11,500 psi	79 MPa	ASTM D-790
Flexural Modulus	425,000 psi	2,932 MPa	ASTM D-790
Thermal Properties			
DTUL @ 66 psi (455 kPa)	350 Deg. F	178 Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	150 Deg. F	66 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-N6MI, 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.