



# Dynamic Polymer Solutions

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

www.dynamicpolymer.com

## Technical Data Sheet

### DYN-N66 Black

### Nylon Type 66 Resin

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

Physical Properties	English Units	Metric Units	
---------------------	---------------	--------------	--

Density	1.14 g/cm <sup>3</sup>	1.14 g/cm <sup>3</sup>	ASTM D-792
---------	------------------------	------------------------	------------

#### Mechanical Properties

Izod Impact - Notched	1 ft-lb/in	53 J/m	ASTM D-256
Tensile Strength @ Yield	10,000 psi	69 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	400,000 psi	2,760 MPa	ASTM D-790

#### Thermal Properties

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

DYN-N66, 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	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

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.