

## Plastics Group Polifil® 836L Nylon 6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

**Material Notes:**

Polifil® NYLON 6 provides superior strength and rigidity with electrical resistance and surface lubricity. Applications:

Automotive Housings Bearings Appliances Standard processing techniques are applicable. Information provided by The Plastics Group.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plastics-Group-Polifil-836L-Nylon-6-DAM.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-836L-Nylon-6-DAM.php)

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.3 %	1.3 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.012 cm/cm @Thickness 3.17 mm	0.012 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.8 MPa	9400 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	Tangent; ASTM D790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	216 °C	420 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	17.3 kV/mm	440 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China