

## DSM Novamid® 1010N2 1ES NAT PA6 FR(30)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

### Material Notes:

Injection Molding, Flame Retardant (Halogen free)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Novamid-1010N2-1ES-NAT-PA6-FR30.php](http://www.lookpolymers.com/polymer_DSM-Novamid-1010N2-1ES-NAT-PA6-FR30.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	dry; ISO 1183
Moisture Absorption	3.00 %	3.00 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	cond; ISO 527-1/-2
	80.0 MPa	11600 psi	dry; ISO 527-1/-2
Elongation at Break	5.0 %	5.0 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	cond; ISO 527-1/-2
Elongation at Yield	4.8 %	4.8 %	dry; ISO 527-1/-2
	22 %	22 %	cond; ISO 527-1/-2
Tensile Modulus	1.50 GPa	218 ksi	cond; ISO 527-1/-2
	3.60 GPa	522 ksi	dry; ISO 527-1/-2
Flexural Strength	46.0 MPa	6670 psi	cond; ISO 178
	120 MPa	17400 psi	dry; ISO 178
Flexural Modulus	1.40 GPa	203 ksi	cond; ISO 178
	3.60 GPa	522 ksi	dry; ISO 178
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	dry; ISO 179/1eA Comments
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 µm/m-°C	33.3 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	dry; ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	192 °C	378 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	dry; ISO 75-1/-2
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	dry; IEC 60695-11-10
Glow Wire Test	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	Glow Wire Flammability Index, dry; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 60093
Surface Resistance	2.00e+14 ohm	2.00e+14 ohm	cond; IEC 60093
Dielectric Constant	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	dry; IEC 60250
	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	dry; IEC 60250
Dielectric Strength	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Dissipation Factor	0.010 @Frequency 100 Hz	0.010 @Frequency 100 Hz	dry; IEC 60250
	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	550 V	550 V	dry; IEC 60112

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**