

DSM Novamid® ST120 NAT PA6-I

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

Material Notes:

Impact Modified, Injection Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-ST120-NAT-PA6-I.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	dry; ISO 1183
Moisture Absorption	2.80 %	2.80 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Elongation at Break	30 %	30 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	cond; ISO 527-1/-2
Elongation at Yield	4.2 %	4.2 %	dry; ISO 527-1/-2
Tensile Modulus	1.90 GPa	276 ksi	dry; ISO 527-1/-2
Flexural Strength	60.0 MPa	8700 psi	dry; ISO 178
Flexural Modulus	1.70 GPa	247 ksi	dry; ISO 178
Charpy Impact Unnotched	NB	NB	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	4.20 J/cm ²	20.0 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	dry; ISO 11359-1/-2

Thermal Properties CTE, linear, transverse to Flow	Metric 100 µm/m-°C	English 50 µm/in-°F	Comments dry; ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	87.0 °C	189 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	53.0 °C	127 °F	dry; ISO 75-1/-2
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	dry; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.00e+14 ohm-cm	9.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	3.00e+13 ohm	3.00e+13 ohm	cond; IEC 60093
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	dry; IEC 60250
	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	dry; IEC 60250
Dielectric Strength	29.0 kV/mm	737 kV/in	dry; IEC 60243-1
Dissipation Factor	0.010 @Frequency 100 Hz	0.010 @Frequency 100 Hz	dry; IEC 60250
	0.018 @Frequency 1.00e+6 Hz	0.018 @Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	600 V	600 V	dry; IEC 60112

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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