

## DSM Novamid® ST220 NAT PA6-I

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

### Material Notes:

Impact Modified, Injection Molding, Medium Viscosity

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Novamid-ST220-NAT-PA6-I.php](http://www.lookpolymers.com/polymer_DSM-Novamid-ST220-NAT-PA6-I.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	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	30.0 MPa	4350 psi	cond; ISO 527-1/-2
	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Elongation at Break	35 %	35 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	cond; ISO 527-1/-2
Elongation at Yield	4.4 %	4.4 %	dry; ISO 527-1/-2
	22 %	22 %	cond; ISO 527-1/-2
Tensile Modulus	0.580 GPa	84.1 ksi	cond; ISO 527-1/-2
	2.10 GPa	305 ksi	dry; ISO 527-1/-2
Flexural Strength	26.0 MPa	3770 psi	cond; ISO 178
	76.0 MPa	11000 psi	dry; ISO 178
Flexural Modulus	0.600 GPa	87.0 ksi	cond; ISO 178
	2.00 GPa	290 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	
	8.80 J/cm <sup>2</sup>	41.9 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
	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
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	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	HB	dry; IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	

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	3.0	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	29.0 kV/mm	737 kV/in	dry; IEC 60243-1
Dissipation Factor	0.010	0.010	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.018	0.018	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	dry; IEC 60112

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