

DSM Novamid® 3010SR NAT PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Easy Molding Grade

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-3010SR-NAT-PA66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	dry; ISO 1183
Moisture Absorption	2.80 %	2.80 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.022 cm/cm	0.022 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	cond; ISO 527-1/-2
	80.0 MPa	11600 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	5.5 %	5.5 %	dry; ISO 527-1/-2
	23 %	23 %	cond; ISO 527-1/-2
Tensile Modulus	3.00 GPa	435 ksi	dry; ISO 527-1/-2
Flexural Strength	50.0 MPa	7250 psi	cond; ISO 178
	115 MPa	16700 psi	dry; ISO 178
Flexural Modulus	1.20 GPa	174 ksi	cond; ISO 178
	2.90 GPa	421 ksi	dry; ISO 178
Charpy Impact Unnotched	NB	NB	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric/cm ²	English/lb/in ²	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	cond; ISO 1179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	dry; ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	196 °C	385 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	67.0 °C	153 °F	dry; ISO 75-1/-2
Flammability, UL94	V-2	V-2	dry; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	dry; IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	dry; IEC 60093
Surface Resistance	3.00e+14 ohm	3.00e+14 ohm	cond; IEC 60093
Dielectric Constant	4.0	4.0	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.0	4.0	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Dissipation Factor	0.010	0.010	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.023	0.023	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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