

DSM Novamid® 1013C5 PA6

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

Material Notes:

Injection Molding, Easy Molding Grade

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1013C5-PA6.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	dry; ISO 1183
Viscosity Test	138 cm ³ /g	138 cm ³ /g	Viscosity Number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	82.0 MPa	11900 psi	dry; ISO 527-1/-2
Elongation at Break	19 %	19 %	dry; ISO 527-1/-2
Tensile Modulus	3.20 GPa	464 ksi	dry; ISO 527-1/-2
Flexural Strength	110 MPa	16000 psi	dry; ISO 178
Flexural Modulus	2.80 GPa	406 ksi	dry; ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	dry; ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	169 °C	336 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	76.0 °C	169 °F	dry; ISO 75-1/-2

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

Electrical Properties Dielectric Constant	4.0 Metric	4.0 English	Comments dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.0	4.0	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	dry; IEC 60250
Dielectric Strength	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Dissipation Factor	0.011	0.011	
	@Frequency 100 Hz	@Frequency 100 Hz	dry; IEC 60250
	0.022	0.022	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	dry; IEC 60250
Comparative Tracking Index	600 V	600 V	dry; IEC 60112

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