

DSM Novamid® 1011CH5KR PA6

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

Material Notes:

Heat Stabilized, Easy Molding Grade

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Novamid-1011CH5KR-PA6.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	dry; ISO 1183
Moisture Absorption	3.20 %	3.20 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	cond; ISO 527-1/-2
	80.0 MPa	11600 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	5.2 %	5.2 %	dry; ISO 527-1/-2
	21 %	21 %	cond; ISO 527-1/-2
Tensile Modulus	1.00 GPa	145 ksi	cond; ISO 527-1/-2
	3.10 GPa	450 ksi	dry; ISO 527-1/-2
Flexural Strength	38.0 MPa	5510 psi	cond; ISO 178
	110 MPa	16000 psi	dry; ISO 178
Flexural Modulus	0.810 GPa	117 ksi	cond; ISO 178
	2.80 GPa	406 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	
	0.500 J/cm ²	2.38 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	dry; ISO 179/1eA Comments
	3.60 J/cm ²	17.1 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 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)	175 °C	347 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °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
Dielectric Constant	4.0	4.0	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	4.0	4.0	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.027	0.027	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.029	0.029	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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