

Overview of materials for Nylon 612, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Impact Modified

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 612, Impact Modified". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Overview-of-materials-for-Nylon-612-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.00 - 1.07 g/cc	0.0361 - 0.0387 lb/in ³	Average value: 1.03 g/cc Grade Count:7
	0.820 - 0.820 g/cc	0.0296 - 0.0296 lb/in ³	Average value: 0.820 g/cc Grade Count:1
	@Temperature 240 - 240 °C	@Temperature 464 - 464 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	27.0 - 33.0 MPa	3920 - 4790 psi	Average value: 29.0 MPa Grade Count:3
Tensile Strength, Yield	9.00 - 33.0 MPa	1310 - 4790 psi	Average value: 26.5 MPa Grade Count:6
Elongation at Break	41.0 - 300 %	41.0 - 300 %	Average value: 105 % Grade Count:7
Elongation at Yield	12.0 - 32.0 %	12.0 - 32.0 %	Average value: 25.7 % Grade Count:4
Modulus of Elasticity	0.720 - 1.19 GPa	104 - 172 ksi	Average value: 0.936 GPa Grade Count:3
	0.0810 - 2.228 GPa	11.7 - 323.1 ksi	Average value: 0.954 GPa Grade Count:2
	@Temperature -40.0 - 150 °C	@Temperature -40.0 - 302 °F	
Flexural Yield Strength	23.0 - 52.0 MPa	3340 - 7540 psi	Average value: 33.7 MPa Grade Count:3
Flexural Modulus	0.520 - 1.30 GPa	75.4 - 189 ksi	Average value: 0.850 GPa Grade Count:5
Izod Impact, Notched	0.290 - 0.850 J/cm	0.543 - 1.59 ft-lb/in	Average value: 0.647 J/cm Grade Count:3
Izod Impact, Notched (ISO)	13.0 - 13.0 kJ/m ²	6.19 - 6.19 ft-lb/in ²	Average value: 13.0 kJ/m ² Grade Count:1
	@Temperature -30.0 - - 30.0 °C	@Temperature -22.0 - - 22.0 °F	
Charpy Impact, Notched	3.50 - 8.00 J/cm ²	16.7 - 38.1 ft-lb/in ²	Average value: 6.10 J/cm ² Grade

Mechanical Properties	Metric	English	Count:3 Comments
	1.20 - 1.50 J/cm ²	5.71 - 7.14 ft-lb/in ²	
	@Temperature -30.0 - - 30.0 °C	@Temperature -22.0 - - 22.0 °F	Average value: 1.38 J/cm ² Grade Count:2

Thermal Properties	Metric	English	Comments
Melting Point	135 - 218 °C	275 - 424 °F	Average value: 193 °C Grade Count:7
Deflection Temperature at 0.46 MPa (66 psi)	60.0 - 151 °C	140 - 304 °F	Average value: 99.8 °C Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	45.0 - 98.0 °C	113 - 208 °F	Average value: 56.2 °C Grade Count:5

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 250 °C	446 - 482 °F	Average value: 240 °C Grade Count:3
Drying Temperature	75.0 - 80.0 °C	167 - 176 °F	Average value: 77.5 °C Grade Count:3
Moisture Content	0.0600 %	0.0600 %	Average value: 0.0600 % Grade Count:3

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