

Overview of materials for Nylon 6 Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 Fiber

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 6 Fiber". 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-6-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.13 - 1.14 g/cc	0.0408 - 0.0412 lb/in ³	Average value: 1.14 g/cc Grade Count:10

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	558 - 607 MPa	81000 - 88000 psi	Average value: 578 MPa Grade Count:5
Elongation at Break	15.0 - 300 %	15.0 - 300 %	Average value: 42.3 % Grade Count:31
Elongation at Yield	3.50 - 12.0 %	3.50 - 12.0 %	Average value: 7.81 % Grade Count:8
Tenacity	0.265 - 2.56 N/tex	3.00 - 29.0 g/denier	Average value: 0.723 N/tex Grade Count:25

Thermal Properties	Metric	English	Comments
Melting Point	110 - 220 °C	230 - 428 °F	Average value: 214 °C Grade Count:19

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4000 - 300000 ohm-cm	4000 - 300000 ohm-cm	Average value: 176000 ohm-cm Grade Count:8

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