

Overview of materials for Nylon 66, Film

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Film

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 66, Film". 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-66-Film.php

Physical Properties	Metric	English	Comments
Density	1.13 - 1.15 g/cc	0.0408 - 0.0415 lb/in ³	Average value: 1.14 g/cc Grade Count:8
Moisture Vapor Transmission	2.18 - 7.38 cc-mm/m ² -24hr-atm	5.54 - 18.7 cc-mil/100 in ² -24hr-atm	Average value: 4.78 cc-mm/m ² -24hr-atm Grade Count:4
	0.230 - 0.340 cc-mm/m ² -24hr-atm @Temperature 38.0 - 38.0 °C	0.584 - 0.864 cc-mil/100 in ² -24hr-atm @Temperature 100 - 100 °F	Average value: 0.285 cc-mm/m ² -24hr-atm Grade Count:2
Water Vapor Transmission	145 - 295 g/m ² /day	9.34 - 19.0 g/100 in ² /day	Average value: 220 g/m ² /day Grade Count:4
	9.00 - 9.00 g/m ² /day @Temperature 38.0 - 38.0 °C	0.580 - 0.580 g/100 in ² /day @Temperature 100 - 100 °F	Average value: 9.00 g/m ² /day Grade Count:2
Oxygen Transmission	0.190 - 3.60 cc-mm/m ² -24hr-atm	0.483 - 9.14 cc-mil/100 in ² -24hr-atm	Average value: 1.15 cc-mm/m ² -24hr-atm Grade Count:7

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	50.0 - 370 %	50.0 - 370 %	Average value: 224 % Grade Count:7
Film Elongation at Break, TD	200 - 400 %	200 - 400 %	Average value: 286 % Grade Count:7
Secant Modulus, MD	0.620 - 2.26 GPa	89.9 - 328 ksi	Average value: 1.17 GPa Grade Count:7
Secant Modulus, TD	0.620 - 2.26 GPa	89.9 - 328 ksi	Average value: 1.12 GPa Grade Count:7
Charpy Impact Unnotched	NB - NB @Temperature -30.0 - -30.0 °C	NB - NB @Temperature -22.0 - -22.0 °F	Grade Count:1
	0.500 - 0.500 J/cm ²	2.38 - 2.38 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@ Temperature -30.0 - - 30.0 °C	@ Temperature -22.0 - - 22.0 °F	Average value: 0.500 J/cm ² Grade Count:7
Coefficient of Friction	0.450	0.450	Average value: 0.450 Grade Count:3
Elmendorf Tear Strength, MD	1.00 - 3.00 g/micron	25.4 - 76.2 g/mil	Average value: 1.86 g/micron Grade Count:7
Elmendorf Tear Strength, TD	0.800 - 5.00 g/micron	20.3 - 127 g/mil	Average value: 2.37 g/micron Grade Count:7
Dart Drop Test	400 - 600 g	0.882 - 1.32 lb	Average value: 550 g Grade Count:4
Film Tensile Strength at Break, MD	52.0 - 240 MPa	7540 - 34800 psi	Average value: 115 MPa Grade Count:7
Film Tensile Strength at Break, TD	17.0 - 76.0 MPa	2470 - 11000 psi	Average value: 50.7 MPa Grade Count:7

Optical Properties	Metric	English	Comments
Haze	0.500 - 8.00 %	0.500 - 8.00 %	Average value: 2.36 % Grade Count:7
Gloss	65.0 - 150 %	65.0 - 150 %	Average value: 136 % Grade Count:7

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