

## Overview of materials for Nylon 11, Powder

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Powder

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Nylon 11, Powder". 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-11-Powder.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Nylon-11-Powder.php)

| Physical Properties | Metric           | English                            | Comments                               |
|---------------------|------------------|------------------------------------|--|
| Density             | 1.04 - 1.35 g/cc | 0.0376 - 0.0488 lb/in <sup>3</sup> | Average value: 1.11 g/cc Grade Count:8 |
| Water Absorption    | 1.90 %           | 1.90 %                             | Average value: 1.90 % Grade Count:8    |

| Mechanical Properties          | Metric          | English         | Comments                              |
|--------------------------------|-----------------|-----------------|---------------------------------------|
| Tensile Strength, Ultimate     | 38.0 - 47.0 MPa | 5510 - 6820 psi | Average value: 42.5 MPa Grade Count:3 |
| Taber Abrasion, mg/1000 Cycles | 17.0            | 17.0            | Average value: 17.0 Grade Count:3     |

| Thermal Properties    | Metric  | English  | Comments   |
|-----------------------|---|--|--|
| CTE, linear           | 150 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 83.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | Average value: 150 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:3 |
| Melting Point         | 185 $^\circ\text{C}$                          | 365 $^\circ\text{F}$                             | Average value: 185 $^\circ\text{C}$ Grade Count:8                          |
| Vicat Softening Point | 160 $^\circ\text{C}$                          | 320 $^\circ\text{F}$                             | Average value: 160 $^\circ\text{C}$ Grade Count:8                          |
| Flammability, UL94    | HB - V-2                                      | HB - V-2   | Grade Count:8  |

| Electrical Properties  | Metric                     | English                    | Comments                                      |
|------------------------|----------------------------|----------------------------|---|
| Electrical Resistivity | 1.00e+14 - 3.50e+14 ohm-cm | 1.00e+14 - 3.50e+14 ohm-cm | Average value: 1.68e+14 ohm-cm Grade Count:11 |
| Surface Resistance     | 1.00e+14 - 2.40e+14 ohm    | 1.00e+14 - 2.40e+14 ohm    | Average value: 1.38e+14 ohm Grade Count:11    |
| Dielectric Constant    | 3.10 - 3.90                | 3.10 - 3.90                | Average value: 3.50 Grade Count:3             |
| Dielectric Strength    | 9.00 - 30.5 kV/mm          | 229 - 775 kV/in            | Average value: 28.2 kV/mm Grade Count:11      |

Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China