

## Overview of materials for Polytetrafluoroethylene (PTFE) Powder

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , PTFE Powder

### Material Notes:

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

| Physical Properties   | Metric                 | English                            | Comments  |
|-----------------------|------------------------|------------------------------------|---|
| Density               | 0.850 - 2.28 g/cc      | 0.0307 - 0.0824 lb/in <sup>3</sup> | Average value: 2.01 g/cc Grade Count:24             |
| Particle Size         | 10.0 - 675 µm          | 10.0 - 675 µm                      | Average value: 314 µm Grade Count:30                |
| pH                    | 9.00 - 9.50            | 9.00 - 9.50                        | Average value: 9.13 Grade Count:4                   |
| Specific Surface Area | 3.00 m <sup>2</sup> /g | 3.00 m <sup>2</sup> /g             | Average value: 3.00 m <sup>2</sup> /g Grade Count:3 |
| Viscosity             | 22.0 - 47.0 cP         | 22.0 - 47.0 cP                     | Average value: 31.3 cP Grade Count:3                |
| Linear Mold Shrinkage | 0.0260 - 0.0470 cm/cm  | 0.0260 - 0.0470 in/in              | Average value: 0.0357 cm/cm Grade Count:6           |

| Mechanical Properties      | Metric          | English         | Comments                               |
|----------------------------|-----------------|-----------------|--|
| Tensile Strength, Ultimate | 18.6 - 42.0 MPa | 2700 - 6090 psi | Average value: 29.1 MPa Grade Count:23 |
| Elongation at Break        | 250 - 500 %     | 250 - 500 %     | Average value: 331 % Grade Count:23    |
| Coefficient of Friction    | 0.100           | 0.100           | Average value: 0.100 Grade Count:3     |

| Thermal Properties          | Metric       | English      | Comments                             |
|-----------------------------|--------------|--------------|--------------------------------------|
| Melting Point               | 320 - 340 °C | 608 - 644 °F | Average value: 328 °C Grade Count:22 |
| Crystallization Temperature | 310 - 318 °C | 590 - 604 °F | Average value: 314 °C Grade Count:3  |

| Electrical Properties | Metric           | English           | Comments                                |
|-----------------------|------------------|-------------------|---|
| Dielectric Strength   | 2.10 - 100 kV/mm | 53.3 - 2540 kV/in | Average value: 34.5 kV/mm Grade Count:8 |
| Dissipation Factor    | 0.000300         | 0.000300          | Average value: 0.000300 Grade Count:5   |

| Processing Properties | Metric          | English         | Comments                              |
|-----------------------|-----------------|-----------------|---------------------------------------|
| Moisture Content      | 0.0400 %        | 0.0400 %        | Average value: 0.0400 % Grade Count:9 |
| Injection Pressure    | 16.0 - 30.0 MPa | 2320 - 4350 psi | Average value: 23.0 MPa Grade Count:6 |

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