

## Solvay Specialty Polymers Algoflon® E2 BP PTFE (Polytetrafluoroethylene) (discontinued \*\*)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Molded

### Material Notes:

Data provided by the manufacturer. Pre Sintered. Type V Classification. Suspension polymer powder grade recommended for compression molding and extrusion. PTFE possesses high inertness, excellent dielectric properties, almost no moisture absorption, low friction coefficient, and is nonflammable.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Algoflon-E2-BP-PTFE-Polytetrafluoroethylene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algoflon-E2-BP-PTFE-Polytetrafluoroethylene-nbspdiscontinued-.php)

| Physical Properties   | Metric     | English                   | Comments   |
|-----------------------|------------|---------------------------|------------|
| Density               | 2.15 g/cc  | 0.0777 lb/in <sup>3</sup> | ASTM D792  |
| Apparent Bulk Density | 0.670 g/cc | 0.0242 lb/in <sup>3</sup> | ASTM D4894 |
| Water Absorption      | 0.00 %     | 0.00 %                    | ASTM D570  |

| Mechanical Properties            | Metric   | English  | Comments   |
|----------------------------------|----------|----------|------------|
| Tensile Strength, Ultimate       | 23.0 MPa | 3340 psi | ASTM D638  |
| Elongation at Break              | 340 %    | 340 %    | ASTM D638  |
| Coefficient of Friction, Dynamic | 0.060    | 0.060    | ASTM D1894 |
| Coefficient of Friction, Static  | 0.080    | 0.080    | ASTM D1894 |

| Thermal Properties               | Metric      | English                            | Comments           |
|----------------------------------|-------------|------------------------------------|--------------------|
| Thermal Conductivity             | 0.240 W/m-K | 1.67 BTU-in/hr-ft <sup>2</sup> -°F | ASTM C177          |
| Maximum Service Temperature, Air | 260 °C      | 500 °F                             | Continuous Service |
| Flammability, UL94               | V-0         | V-0                                | VE-0               |
| Oxygen Index                     | >= 95 %     | >= 95 %                            | ASTM D2863         |

| Electrical Properties  | Metric                       | English                      | Comments  |
|------------------------|------------------------------|------------------------------|-----------|
| Electrical Resistivity | 1.00e+18 ohm-cm              | 1.00e+18 ohm-cm              | ASTM D257 |
| Dielectric Constant    | 2.1                          | 2.1                          | ASTM D150 |
|                        | @Frequency 60.0 - 2.00e+9 Hz | @Frequency 60.0 - 2.00e+9 Hz |           |
|                        | >= 0.00030                   | >= 0.00030                   |           |

| Designation Factor<br>Electrical Properties | Metric<br>@Frequency 60.0 -<br>2.00e+9 Hz | English<br>@Frequency 60.0 -<br>2.00e+9 Hz | ASTM D150<br>Comments |
|---------------------------------------------|-------------------------------------------|--------------------------------------------|-----------------------|
|---------------------------------------------|-------------------------------------------|--------------------------------------------|-----------------------|

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