

## Solvay Specialty Polymers Algoflon® 15GL PTFE; Glass Fiber Filled (discontinued \*\*)

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

### Material Notes:

Data provided by the manufacturer. 15 wt.% Glass Fiber. Suspension polymer powder grade recommended for compression molding. Pure 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-15GL-PTFE-Glass-Fiber-Filled-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algoflon-15GL-PTFE-Glass-Fiber-Filled-nbspdiscontinued-.php)

| Physical Properties   | Metric      | English                   | Comments                                            |
|-----------------------|-------------|---------------------------|-----------------------------------------------------|
| Density               | 2.22 g/cc   | 0.0802 lb/in <sup>3</sup> | ASTM D792                                           |
| Apparent Bulk Density | 0.500 g/cc  | 0.0181 lb/in <sup>3</sup> | ASTM D4894                                          |
| Linear Mold Shrinkage | 0.020 cm/cm | 0.020 in/in               | Radial shrinkage of 10 cm o.d. sintered rod at 23°C |

| Mechanical Properties            | Metric   | English  | Comments   |
|----------------------------------|----------|----------|------------|
| Hardness, Shore D                | 58       | 58       |            |
| Tensile Strength, Ultimate       | 24.0 MPa | 3480 psi | ASTM D638  |
| Elongation at Break              | 280 %    | 280 %    | 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           |
|----------------------------------|-------------------------------------------|----------------------------------------------|--------------------|
| CTE, linear, Parallel to Flow    | 160 µm/m-°C<br>@Temperature 23.0 - 250 °C | 88.9 µin/in-°F<br>@Temperature 73.4 - 482 °F | ASTM D696          |
| Thermal Conductivity             | 0.340 W/m-K                               | 2.36 BTU-in/hr-ft <sup>2</sup> -°F           | ASTM C177          |
| Maximum Service Temperature, Air | 260 °C                                    | 500 °F                                       | Continuous Service |

| Electrical Properties  | Metric          | English         | Comments  |
|------------------------|-----------------|-----------------|-----------|
| Electrical Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257 |

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