## Solvay Specialty Polymers Algoflon® 15GR PTFE; Graphite Filled (discontinued **) <br> Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

## Material Notes:

Data provided by the manufacturer. 15 wt.\% Graphite. 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-15GR-PTFE-Graphite-Filled-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
| :---: | :---: | :---: | :---: |
| Density | $2.17 \mathrm{~g} / \mathrm{cc}$ | $0.0784 \mathrm{lb} / \mathrm{in}^{3}$ | ASTM D792 |
| Linear Mold Shrinkage | $0.021 \mathrm{~cm} / \mathrm{cm}$ | $0.021 \mathrm{in} / \mathrm{in}$ | Radial shrinkage of 10 cm o.d. sintered rod at $23^{\circ} \mathrm{C}$ |
| Mechanical Properties | Metric | English | Comments |
| Hardness, Shore D | 57 | 57 |  |
| Tensile Strength, Ultimate | 24.0 MPa | 3480 psi | ASTM D638 |
| Elongation at Break | $230 \%$ | 230\% | 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 | $\begin{aligned} & 190 \mu \mathrm{~m} / \mathrm{m}-{ }^{\circ} \mathrm{C} \\ & \text { @Temperature } 23.0- \\ & 250^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 106 \mu \mathrm{in} / \mathrm{in}-{ }^{\circ} \mathrm{F} \\ & \text { @Temperature } 73.4 \text { - } \\ & 482^{\circ} \mathrm{F} \end{aligned}$ | ASTM D696 |
| Thermal Conductivity | 0.750 W/m-K | 5.20 BTU-in/hr-ft ${ }^{2}{ }^{\circ} \mathrm{F}$ | ASTM C177 |
| Maximum Service Temperature, Air | $260{ }^{\circ} \mathrm{C}$ | $500{ }^{\circ} \mathrm{F}$ | Continuous Service |
| Electrical Properties | Metric | English | Comments |
| Electrical Resistivity | $1.00 \mathrm{e}+7$ ohm-cm | $1.00 \mathrm{e}+7$ ohm-cm | ASTM D257 |

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