

## Solvay Specialty Polymers Algoflon® 1.2CSC PTFE; Superconductive Carbon Filled (discontinued \*\*)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Conductive Carbon Filled

### Material Notes:

Data provided by the manufacturer. 1.2 wt.% Superconductive Carbon. 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-12CSC-PTFE-Superconductive-Carbon-Filled-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algoflon-12CSC-PTFE-Superconductive-Carbon-Filled-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	2.15 g/cc	0.0777 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.390 g/cc	0.0141 lb/in <sup>3</sup>	ASTM D4894
Linear Mold Shrinkage	0.045 cm/cm	0.045 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	
Tensile Strength, Ultimate	39.0 MPa	5660 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
CTE, linear, Parallel to Flow	160 µm/m-°C	88.9 µin/in-°F	ASTM D696
	@Temperature 23.0 - 250 °C	@Temperature 73.4 - 482 °F	
Maximum Service Temperature, Air	260 °C	500 °F	Continuous Service

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1000 ohm-cm	1000 ohm-cm	ASTM D257

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