

Solvay Specialty Polymers Algoflon® 35CAR B PTFE; Carbon Filled (discontinued **)

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

Material Notes:

Data provided by the manufacturer. 35 wt.% Electrog. Carbon Filler. 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-35CAR-B-PTFE-Carbon-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	2.08 g/cc	0.0751 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.024 cm/cm	0.024 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	
Tensile Strength, Ultimate	19.0 MPa	2760 psi	ASTM D638
Elongation at Break	70 %	70 %	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	120 µm/m-°C @Temperature 23.0 - 250 °C	66.7 µin/in-°F @Temperature 73.4 - 482 °F	ASTM D696
Thermal Conductivity	0.650 W/m-K	4.51 BTU-in/hr-ft ² -°F	ASTM C177
Maximum Service Temperature, Air	260 °C	500 °F	Continuous Service

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