

## Solvay Specialty Polymers Algorlon® 60BZ PTFE; Bronze Filled (discontinued \*\*)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Bronze Filled

### Material Notes:

Data provided by the manufacturer.60 wt.% Bronze. 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-Algorlon-60BZ-PTFE-Bronze-Filled-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Algorlon-60BZ-PTFE-Bronze-Filled-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	3.94 g/cc	0.142 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	ASTM D4894
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	Radial shrinkage of 10 cm o.d. sintered rod at 23°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Ultimate	20.0 MPa	2900 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	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 <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+7 ohm-cm	1.00e+7 ohm-cm	ASTM D257

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