

Dalau Dalcon 018 85% Virgin PTFE, 15% Graphite

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Applications & Industries: General: Graphite filler improves the sliding properties & thermal conductivity of PTFE and has one of the lowest coefficient of frictions. It has low wear in water and is a good bearing material on soft metals & in high speed contact. Chemical: Dynamic & shaft seals; Construction; Bridge bearings; and Slide bearings. Engineering: Anti - friction bearing cages & bearing plates; Bearings, bushes, shaft bearings / seals (in combustion engines); Film bearings. Multi - layer composite bearings. Fabric bearings; Laboratory equipment.

Measuring & control technology: Pipe supports. Expansion bellows. Glandless valves & pumps, valve seats; Piston rings in hydraulic systems; and Piston rod packings used in compressor plunger pumps & valves. **CHEMICAL RESISTANCE:** The strength of the carbon - fluorine bond and the shielding of the carbon chains by the fluorine atoms result in a chemical inertness which is virtually universal, except alkali metals, fluorine under certain conditions, some fluorine compounds & halogen gases at elevated temperatures. Information provided by Dalau

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dalau-Dalcon-018-85-Virgin-PTFE-15-Graphite.php

Physical Properties	Metric	English	Comments
Density	2.10 - 2.18 g/cc	0.0759 - 0.0788 lb/in ³	BS2782:Pt6

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 67	65 - 67	ASTM D2240
Tensile Strength	13.5 - 25.0 MPa	1960 - 3630 psi	Moulding Direction; BS2782:Pt3
Elongation at Break	120 - 250 %	120 - 250 %	Moulding Direction; BS2782:Pt3

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.780 W/m-K	5.41 BTU-in/hr-ft ² -°F	Moulding Direction; ASTM C177
Melting Point	327 °C	621 °F	ASTM D3417
Maximum Service Temperature, Air	260 °C	500 °F	
	300 °C	572 °F	Short Periods
Minimum Service Temperature, Air	-200 °C	-328 °F	
Flash Point	630 °C	1170 °F	ASTM D1929

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	ASTM D257
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	ASTM D257

Descriptive Properties	Value	Comments
Color	Dark Grey	

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