Dalau Dalcon 020 Virgin PTFE, Carbon (Anti-Static)

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Applications & Industries: General: The static and dynamic friction coefficient are numerically equal, consequently no 'Stick Slip' occurs. Electrical: Ideal for Anti - Static Applications; Anti - Static Hose Linings; and Anti - Static Diaphragms.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, and some fluorine compounds at elevated temperatures. Some Fluorinated Hydrocarbons (refrigerants) cause reversible swelling i.e. Telrafluorodichloroethane Frigen 21, giving a 9.6% weight increase. For specific data on chemical resistance of this material we have a computer database with all the information covering over 90% of all known chemicals.Information provided by Dalau

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dalau-Dalcon-020-Virgin-PTFE-Carbon-Anti-Static.php

Physical Properties	Metric	English	Comments
Density	2.13 - 2.19 g/cc	0.0770 - 0.0791 lb/in³	BS2782:Pt6
Deformation	7.9 %	7.9 %	Permanent Deformation; ASTM D621
	10 % @Time 3600 sec, Pressure 5.00 MPa	10 % @Time 1.00 hour, Pressure 725 psi	150°C; ASTM D621
	11.8 % @Time 3600 sec, Pressure 14.2 MPa	11.8 % @Time 1.00 hour, Pressure 2060 psi	ASTM D621
	14.3 % @Pressure 14.2 MPa, Time 86400 sec	14.3 % @Pressure 2060 psi, Time 24.0 hour	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57 - 64	57 - 64	ASTM D2240
Tensile Strength	20.0 - 35.0 MPa	2900 - 5080 psi	Moulding Direction; BS2782:Pt3
Elongation at Break	150 - 350 %	150 - 350 %	Moulding Direction; BS2782:Pt3
Flexural Modulus	0.690 GPa	100 ksi	ASTM D790
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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	142 µm/m-°C @Temperature 23.0 - 200 °C	78.9 µin/in-°F @Temperature 73.4 - 392 °F	ASTM D696
CTE, linear, Transverse to Flow	152 µm/m-°C @Temperature 23.0 - 200 °C	84.4 µin/in-°F @Temperature 73.4 - 392 °F	ASTM D696
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft²-°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	530 °C	986 °F	ASTM D1929
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863

Descriptive Properties	Value	Comments
Color	Black	

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