

Dalau Dalcon 006 75% Virgin PTFE, 25% Glass Fiber

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Glass Filled, Molded

Material Notes:

Applications & Industries:General: 25% Glass fibre is the most widely used filler. It improves the creep resistance, compressive strength, rigidity, and wear of PTFE, both at low & high temperatures. It is chemically stable (except to strong alkalis & hydrochloric acid - HF). 25% glass filler improves the wear resistance properties of PTFE.
Chemical: Dynamic & shaft seals and Seals & gaskets. Flat gaskets are used to seal flanges in pipelines.
Construction: Bridge bearings. Slide bearings.
Engineering: Anti - friction bearing cages & bearing plates; Bearings, bushes, shaft bearings / seals (in combustion engines); Chain tension slide bearings. Film bearings. Multi - layer composite bearings; Laboratory equipment. Measuring & control technology; Pipe supports. 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, and some fluorine compounds at elevated temperatures. Resistant to organic solvents. This compound has a fair resistance to the following chemicals: Ammonium hydroxide, Bromine, Chromic acid, Hydroboric acid, Hydrochloric acid, Hydrocyanic acid, Nitric acid (0 - 50%), Phenol, Sodium hydroxide. This compound has an unsatisfactory resistance to the following chemicals: Fluorosilicic acid, Hydrofluoric acid, Hydrogen sulphide (solution), Sodium silicate. Information provided by Dalau

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dalau-Dalcon-006-75-Virgin-PTFE-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	2.19 - 2.27 g/cc	0.0791 - 0.0820 lb/in ³	BS2782:Pt6
Deformation	6.4 %	6.4 %	Permanent Deformation; ASTM D621
	9.0 %	9.0 %	ASTM D621
	@Time 3600 sec, Pressure 14.2 MPa	@Time 1.00 hour, Pressure 2060 psi	
	9.2 %	9.2 %	150°C; ASTM D621
	@Time 3600 sec, Pressure 5.00 MPa	@Time 1.00 hour, Pressure 725 psi	
	12.4 %	12.4 %	ASTM D621
	@Pressure 14.2 MPa, Time 86400 sec	@Pressure 2060 psi, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64 - 68	64 - 68	ASTM D2240
Tensile Strength	11.0 - 15.0 MPa	1600 - 2180 psi	Moulding Direction; BS2782:Pt3
Elongation at Break	120 - 270 %	120 - 270 %	Moulding Direction; BS2782:Pt3
	5.50 MPa	798 psi	

Flexural Yield Strength Mechanical Properties	Metric @ Strain 0.200 %	English @ Strain 0.200 %	ASTM D790 Comments
Flexural Modulus	1.00 GPa	145 ksi	ASTM D790
Compressive Strength	1.80 MPa	261 psi	ASTM D695
	@ Strain 0.200 %, Temperature 150 °C	@ Strain 0.200 %, Temperature 302 °F	
	7.20 MPa	1040 psi	ASTM D695
	@ Strain 0.200 %, Temperature 23.0 °C	@ Strain 0.200 %, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	136 µm/m-°C	75.6 µin/in-°F	ASTM D696
	@ Temperature 23.0 - 200 °C	@ Temperature 73.4 - 392 °F	
CTE, linear, Transverse to Flow	84.0 µm/m-°C	46.7 µin/in-°F	ASTM D696
	@ Temperature 23.0 - 200 °C	@ Temperature 73.4 - 392 °F	
Thermal Conductivity	0.410 W/m-K	2.85 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	Short Periods
	300 °C	572 °F	
Minimum Service Temperature, Air	-200 °C	-328 °F	
Flash Point	630 °C	1170 °F	ASTM D1929
Oxygen Index	98 - 100 %	98 - 100 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ASTM D257
Dielectric Constant	2.36	2.36	ASTM D150
	@ Frequency 60.0 Hz	@ Frequency 60.0 Hz	
	2.85	2.85	ASTM D150
	@ Frequency 1.00e+6 Hz	@ Frequency 1.00e+6 Hz	
Dielectric Strength	12.9 kV/mm	328 kV/in	Air; ASTM D149

Electrical Properties	34.2 kV/mm Metric	869 kV/in English	OH- ASTM D149 Comments
Dissipation Factor	0.0028	0.0028	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0718	0.0718	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Descriptive Properties	Value	Comments
Color	Off-White	

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