Dalau Dalcon 021 75% Virgin PTFE, 25% Carbon Coke

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Applications & Industries: General: Carbon / Coke (soft) filler is good in dry running conditions, adds to the creep resistance, increases the hardness and raises the thermal conductivity of PTFE; Carbon / Coke (soft) compounds have good wear properties, but has low tool wear during machining, thus allowing machining to very close tolerances; Carbon / Coke (soft) compounds have some electrical conductivity and are therefore antistatic; and Carbon filled compounds when combined with graphite, have excellent wear properties. The combination of the above properties makes carbon / graphite compounds the preferred material for non - lubricated piston rings. 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); 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 compressors; 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. Carbon / Coke is a good inert filler, except in oxidising environments where glass performs better. Resistant to hydrofluoric acid.Information provided by Dalau

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dalau-Dalcon-021-75-Virgin-PTFE-25-Carbon-Coke.php

Physical Properties	Metric	English	Comments
Density	2.05 - 2.13 g/cc	0.0741 - 0.0770 lb/in³	BS2782:Pt6
Deformation	4.8 % @Time 3600 sec, Pressure 14.2 MPa	4.8 % @Time 1.00 hour, Pressure 2060 psi	ASTM D621
	6.6 % @Pressure 14.2 MPa, Time 86400 sec	6.6 % @Pressure 2060 psi, Time 24.0 hour	ASTM D621
	6.6 % @Time 3600 sec, Pressure 5.00 MPa	6.6 % @Time 1.00 hour, Pressure 725 psi	150°C; ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70 - 72	70 - 72	ASTM D2240
Tensile Strength	12.0 - 25.0 MPa	1740 - 3630 psi	Moulding Direction; BS2782:Pt3
Elongation at Break	50 - 250 %	50 - 250 %	Moulding Direction; BS2782:Pt3
Flexural Yield Strength	10.3 MPa	1490 psi	ASTM D790

Mechanical Properties	Metric	English	Comments
	@Strain 0.200 %	@Strain 0.200 %	
Flexural Modulus	1.09 GPa	158 ksi	ASTM D790
Compressive Strength	2.30 MPa @Strain 0.200 %, Temperature 150 °C	334 psi @Strain 0.200 %, Temperature 302 °F	ASTM D695
	9.13 MPa @Strain 0.200 %, Temperature 23.0 °C	1320 psi @Strain 0.200 %, Temperature 73.4 °F	ASTM D695

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.580 W/m-K	4.03 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	630 °C	1170 °F	ASTM D1929
Oxygen Index	98 - 100 %	98 - 100 %	ASTM D2863

Descriptive Properties	Value	Comments
Color	Black	

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