

Greene Tweed Avalon® 56 PTFE

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

Material Notes:

PTFE is used in many pharmaceutical-sealing applications. Its chemical inertness and ultra-low level extractables provide pharmaceutical process and validation engineers with a safe material to use in almost any applications. PTFE is visco-elastic, providing a functional seal when other fluorinated plastics such as PFA or FEP cannot. However, because virgin PTFE will creep under load its ability to provide a reliable seal during temperature cycling is limited. Ferrule gaskets made from Avalon® 56 provide a level of performance superior to other PTFE materials used in the pharmaceutical and hygienic fluid handling industries. Greene Tweed's Avalon 56 uses the latest generation modified PTFE. Modified PTFE contains a small amount of a perfluoroether to improve creep resistance, compressive strength and permeation resistance. Modified PTFE is not only the material of choice for PTFE-faced diaphragm materials, but it is also FDA compliant. While other gasket manufacturers fabricate gaskets by directly molding the finished part, Greene Tweed machines Avalon 56 sanitary gaskets and custom shapes from isostatic-molded billets to provide optimal physical properties and tighter tolerances, easing the installation process. Avalon 56 virgin PTFE seals deliver improved sealing performance over standard PTFE. Avalon 56 is available in all sanitary gasket sizes, as well as custom shapes. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-Avalon-56-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.18 g/cc	2.18 g/cc	ASTM D792
Deformation	3.2 %	3.2 %	2000 psi 78°F; ASTM D621

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 MPa	5000 psi	ASTM D1457
Elongation at Break	450 %	450 %	ASTM D1457
Shear Strength	9.31 MPa	1350 psi	ASTM D732
	@Temperature 204 °C	@Temperature 400 °F	
	10.3 MPa	1500 psi	ASTM D732
	@Temperature 149 °C	@Temperature 300 °F	
	11.7 MPa	1700 psi	ASTM D732
	@Temperature 93.3 °C	@Temperature 200 °F	
	12.8 MPa	1850 psi	ASTM D732
	@Temperature 65.6 °C	@Temperature 150 °F	
	15.2 MPa	2200 psi	ASTM D732

Mechanical Properties	Metric @Temperature 37.8 °C	English @Temperature 100 °F	Comments
	16.5 MPa	2400 psi	ASTM D732
	@Temperature 26.7 °C	@Temperature 80.0 °F	
Coefficient of Friction, Dynamic	0.080	0.080	33.3 psi @ 150 fpm
Coefficient of Friction, Static	0.050	0.050	33.3 psi
K (wear) Factor	5040 x 10 ⁻⁸ mm ³ /N-M	2500 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	

Descriptive Properties	Value	Comments
Color	White	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China