GrafTech GRAFOILÂ® UCARÂ®-323 Reinforced PTFE Gasketing

Category : Carbon , Graphite

Material Notes:

GRAFOILÂ® Grade UCARÂ®-323 is a laminated gasket material consisting of multiple plies of woven fiberglass coated with PTFE. It will not support combustion or bacteria. Its applications include: electrical isolation of pipelines and equipment; and use with sulfuric acid, nitric acid, and other strong oxidizing chemicals. Surface identifiable, UCARÂ®-323 is branded with the GRAFOILÂ® grade and source guarantee. The advantages of UCARÂ®-323 are: more than 5 times the tensile strength of the market leader PTFE; extremely tolerant to process changes (temperature & pressure); design and material give up 14 times the sealability rate; 70% less creep; absorption rate of less than 0.1%; and maintains a higher bolt torque retention and a better seal in applications of thermal cycling.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GrafTech-GRAFOIL-UCAR-323-Reinforced-PTFE-Gasketing.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.30 g/cc	2.30 g/cc	
Thickness	790 microns	31.1 mil	Standard
	1570 microns	61.8 mil	Standard
	3180 microns	125 mil	Standard

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.7 MPa	12000 psi	
Compression Set	30 % @Pressure 34.5 MPa	30 % @Pressure 5000 psi	after 5000 psi load

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	245 Â°C	473 Â°F	Continuous
Minimum Service Temperature, Air	-200 Â°C	-328 Â°F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	9.84 kV/mm	250 kV/in	

Descriptive Properties		Value	Comments
"m" Factor		3	
"y" Stress (psi)		2200	
Coefficient of Thermal Conductivity (k)		0.18	

Descriptive Properties	Value	Comments load

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