

GrafTech GRAFOIL® GTB Standard Fluid Sealing Graphite Single Layer Gasketing Material

Category : Carbon , Graphite

Material Notes:

GRAFOIL® GTB flexible graphite sheet is a gasketing material containing no binders or fillers. Standard industrial grade GTB flexible graphite has an oxidation/corrosion inhibitor and is typically 98% graphite. Grade GTB is the facing material for grades GHR, GHE, GHP, and GHW laminates. GTB is used in most standard industrial fluid sealing applications, including: chemical, petrochemical, refinery, and steam service. While maintaining an effective seal, GRAFOIL® material exhibits virtually no creep relaxation. As a result, the need for periodic bolt tightening is greatly reduced.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GrafTech-GRAFOIL-GTB-Standard-Fluid-Sealing-Graphite-Single-Layer-Gasketing-Material.php

Physical Properties	Metric	English	Comments
Bulk Density	1.00 g/cc	0.0361 lb/in ³	Standard for 0.020", 0.040" 0.060" thick
	1.12 g/cc	0.0405 lb/in ³	Standard for 0.005", 0.010", 0.015", 0.020", 0.025", 0.030", 0.060" thick
Thickness	130 microns	5.12 mil	Standard
	250 microns	9.84 mil	Standard
	380 microns	15.0 mil	Standard
	510 microns	20.1 mil	Standard
	640 microns	25.2 mil	Standard
	760 microns	29.9 mil	Standard
	1020 microns	40.2 mil	Standard
	1520 microns	59.8 mil	Standard
Ash	1.8 %	1.8 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	4.48 MPa	650 psi	Typical for 70 lb/ft ³
Compression Set	85 %	85 %	Typical for 70 lb/ft ³
	@Pressure 34.5 MPa	@Pressure 5000 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	525 Â°C	977 Â°F	

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	210 Å°C	100 Å°F	
Component Elements Properties	Metric	English	Comments
Carbon, C	98.2 %	98.2 %	
Sulfur, S	0.055 %	0.055 %	
Chemical Properties	Metric	English	Comments
Ionic Impurities - Cl (Chloride)	10 ppm	10 ppm	Leachable
Descriptive Properties	Value	Comments	
Compressibility (%)	43	at 5000 psi load; Typical for 70 lb/ftÅ³	

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