

GrafTech GRAFOIL® GTC Standard Internal Combustion Graphite, Single Layer Material

Category : Carbon , Graphite

Material Notes:

GRAFOIL® GTC flexible graphite sheet is a gasketing material containing no binders or fillers, which will seal a wide variety of liquids and gases over an extremely large temperature range. GTC can be used in a number of automotive or internal combustion applications. Additionally, GTC's ability to conform to less-than-ideally-finished surfaces is a benefit in aftermarket gasket applications. GTC is used in high-temperature sealing applications where binder-based materials fail. It is often combined with inserts to make head gaskets, exhaust manifold gaskets, EGR assemblies and filler material for heat shields. 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-GTC-Standard-Internal-Combustion-Graphite-Single-Layer-Material.php

Physical Properties	Metric	English	Comments
Bulk Density	1.12 g/cc	0.0405 lb/in ³	Standard
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Thickness	380 microns	15.0 mil	Standard
	510 microns	20.1 mil	Standard
	640 microns	25.2 mil	Standard
	760 microns	29.9 mil	Standard
	890 microns	35.0 mil	Standard
Ash	3.0 %	3.0 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	4.48 MPa	650 psi	
Compression Set	87 %	87 %	after 5000 psi load
	@Pressure 34.5 MPa	@Pressure 5000 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	450 Â°C	842 Â°F	
Minimum Service Temperature, Air	-240 Â°C	-400 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C			

Component Elements Properties	97 % Metric	97 % English	Comments
Chemical Properties	Metric	English	Comments
Ionic Impurities - Cl (Chloride)	<= 10 ppm	<= 10 ppm	Leachable

Descriptive Properties	Value	Comments
Compressibility (%)	43	at 5000 psi load

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