

GrafTech GRAFOILÂ® TG-251 Standard Internal Combustion Laminate, Metal Reinforced

Category : Carbon , Graphite

Material Notes:

GRAFOILÂ® Grade TG-251 is GRAFOILÂ® Grade GTC flexible graphite chemically bonded to both faces of a flat, low-carbon steel core. Its applications include: exhaust sealing, gasoline/diesel head gaskets, EGR valve sealing, and turbo charger gaskets. While maintaining an effective seal, GRAFOILÂ® material exhibits virtually no creep relaxation. As a result, the need for periodic bolt tightening is greatly reduced.

Laminate Construction: GRAFOILÂ® Grade GTC ? micro-thin, phenolic-based adhesive ? 0.0066" thick Low-Carbon Steel Grade 1008 or 1010 ? micro-thin, phenolic-based adhesive ? GRAFOILÂ® Grade GTC

Order this product through the following link:

http://www.lookpolymers.com/polymer_GrafTech-GRAFOIL-TG-251-Standard-Internal-Combustion-Laminate-Metal-Reinforced.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------|----------------|--------------------|
| Bulk Density | 1.12 g/cc | 0.0405 lb/inÂ³ | Standard; Graphite |
| Thickness | 940 microns | 37.0 mil | Standard; Laminate |
| | 1190 microns | 46.9 mil | Standard; Laminate |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------------------------|----------------------------|-------------------------------|
| Compression Set | 76 % | 76 % | Air Aging (5 hours at 540Â°C) |
| | 69 % @Pressure 34.5 MPa | 69 % @Pressure 5000 psi | after 5000 psi load |

| Descriptive Properties | Value | Comments |
|------------------------|-------|-------------------------------|
| Compressibility (%) | 34 | at 5000 psi load |
| | 39 | Air Aging (5 hours at 540Â°C) |

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