

## GrafTech GRAFOIL® GRAFKOTE® Laminates, Non-Metal Reinforced

Category : Carbon , Graphite

### Material Notes:

GRAFOIL® GRAFKOTE® laminates are made with GRAFOIL® Grade GTB flexible graphite thermally bonded to a 0.0005" thick polymer facing on one ("Single-Sided") or both ("Double-Sided") sides. The polymer facing enhances product handleability and durability, making GRAFKOTE® laminates an excellent gasketing material. Each laminate is surface identifiable, branded with the GRAFOIL® grade. Its applications include: valves, pumps, pipe/ASME/API/DIN flanges, glass-lined or low load flange equipment, steam traps, heat exchangers, and compressors. The advantages of GRAFKOTE® products are: compatible with many chemicals; maximum continuous use temperature 400°C (750°F); no shelf life; material availability in rolls allows for maximum material utilization; easily cut; contains no hazardous materials; improved handleability and durability; superior to non-asbestos fiber sheet in every characteristic (Creep, Recovery, and Sealability). Single-Sided Laminate Construction: 0.0005" thick polymer ? GRAFOIL® Grade GTB. Double-Sided Laminate Construction: 0.0005" thick polymer ? GRAFOIL® Grade GTB ? 0.0005" thick polymer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_GrafTech-GRAFOIL-GRAFKOTE-Laminates-Non-Metal-Reinforced.php](http://www.lookpolymers.com/polymer_GrafTech-GRAFOIL-GRAFKOTE-Laminates-Non-Metal-Reinforced.php)

| Physical Properties | Metric       | English                   | Comments                           |
|---------------------|--------------|---------------------------|------------------------------------|
| Bulk Density        | 1.12 g/cc    | 0.0405 lb/in <sup>3</sup> | Standard; Graphite                 |
| Thickness           | 760 microns  | 29.9 mil                  | Standard for Single-Sided Laminate |
|                     | 1520 microns | 59.8 mil                  | Standard for Single-Sided Laminate |
|                     | 1570 microns | 61.8 mil                  | Standard for Double-Sided Laminate |

| Mechanical Properties     | Metric             | English            | Comments            |
|---------------------------|--------------------|--------------------|---------------------|
| Tensile Strength at Break | 5.52 MPa           | 800 psi            | >= 0.030" Thick     |
|                           | 6.55 MPa           | 950 psi            | 0.010" Thick        |
| Compression Set           | 80 %               | 80 %               | after 5000 psi load |
|                           | @Pressure 34.5 MPa | @Pressure 5000 psi |                     |

| Thermal Properties               | Metric | English | Comments                             |
|----------------------------------|--------|---------|--------------------------------------|
| Maximum Service Temperature, Air | 200 °C | 392 °F  | 0.010", 0.017" thick                 |
|                                  | 400 °C | 752 °F  | 0.030", 0.060", 0.062", 0.082" thick |

| Descriptive Properties | Value | Comments           |
|------------------------|-------|--------------------|
| "m" Factor             | 2     | ASME Gasket Factor |
| "y" Stress (psi)       | 900   | ASME Gasket Factor |

| Compressibility (%)<br>Descriptive Properties | 43<br>Value | at 5000 psi load<br>Comments |
|---|-------------|------------------------------|
| Max Gasket Unit Load (psi)                    | 6526        | ASME Gasket Factor           |

## Contact Songhan Plastic Technology Co.,Ltd.

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