

Flexible Graphite Sheet

LAMNATED FLEXIBLE GRAPHITE SHEET § ASTM F104: F517000B1M3



application:

DURLON®Flexible Graphite is unaffected by heat over a wide range of temperatures. It exhibits low electrical resistivity and high thermal conductivity and is suitable for cryogenic temperatures. This product is suitable for applications in the automotive, refining and petrochemical plant processes.

composition:

DURLON® Flexible Graphite is available in several styles. These include homogeneous sheet and laminated styles with various types of core materials.

service range:

| | |
|------------------------------|-----------------------------------|
| Temperature Range: | 1200°F (650°C) Steam |
| Oxidizing: | -450 to 750°F (-260 to 400°C) |
| Non-Oxidizing: | -450 to 5,400°F (-260 to 3,000°C) |
| Pressure, max: | 3,000 psi (20.7 MPa) |
| Fluid Resistance - pH Range: | 0 to 14 at room temperature |

typical physical properties (based on 1/16" thickness):

| Test Method | FGS95 | FGLPE | FGL316 | FGT316 |
|-----------------------------|-------------|-------|--------|--------|
| ASTM F36 | | | | |
| Compressibility, % | 35-40 | 35-40 | 35-40 | 30-35 |
| Recovery, % | 20 | 18 | 18 | 20 |
| ASTM F38 | | | | |
| Creep Relaxation, % | 5 | 5 | 5 | 5 |
| Ignition Loss, % | | | | |
| @ 850°F (454°C) | 1 | 1 | 1 | 1 |
| @ 1200°F (650°C) | 8 | 8 | 6 | 6 |
| ASTM F37, Sealability | | | | |
| Fuel A, mL/hr | 0.5 | 0.5 | 0.5 | 0.5 |
| Nitrogen, mL/hr | 1 | 2 | 2 | 5 |
| DIN 3535 - Gas Permeability | | | | |
| Nitrogen, cc/min | 0.4 | 0.4 | 0.4 | 0.8 |
| ASTM F104 & F868 | F104 | F868 | F868 | F868 |
| Line Call-Outs: | F517000B1M3 | 9FPF2 | 9FMF2 | 9FMF1 |

This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

Note: ASTM properties based on 1/16" sheet thickness except ASTM F38, which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.



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