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 resistiviity 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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