



EGC Enterprises, Inc.

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PRODUCT DATA SHEET

PDS-180

TITLE Thermafoil® TF-LTG Flexible Graphite

INFORMATION ON THIS PRODUCT DATA SHEET IS TYPICAL, SUBJECT TO CHANGE WITHOUT NOTICE AND DOES NOT CONSTITUTE A SPECIFICATION OR PRODUCT WARRANTY.

Description:

Thermafoil® TF-LTG is a flexible graphite laminate made with Thermafoil® B Flexible Graphite material thermally bonded with a Teflon coated fiberglass core. TF-LTG Laminates have a functional temperature range of -400°F to 750°F (-240°C to 400°C), excellent blowout resistance and high-temperature creep relaxation characteristics, is fire safe, and out performs asbestos gasket materials. Its applications include valves, pumps, pipe/ASME/API/DIN flanges, glass-lined or low load flange equipment, steam traps, heat exchangers, and compressors. Thermafoil® TF-LTG is compatible with a wide range of chemicals, has a maximum continuous use temperature of 750°F (400°C), has no shelf life and contains no hazardous materials.

Availability:

Available Thicknesses: 0.062 (1.57mm) to 0.122” (3.10mm) Standard. (Non-Standard thicknesses may be available upon request)

Characteristic	Typical property
Thickness of Laminate	0.062 (1.57mm) Standard 0.122” (3.10mm) Standard
Width/ Length	24” x 24” Standard up to 60”
Bulk Density (Graphite)	70lb/ft ³ (1.12g/cc) Standard Non standard densities may be available upon request.
Compressibility @ 5000 psi (35MPa) load	40% typical
Recovery After 5000psi (35 MPa) load	15% Typical
Creep Relaxation Method:BSI-F125 @ 6391 psi (44.1 MPa) load up to 400° C	<3% Typical for 70lb/ft ³
Sealability Method: Mod DIN 3535 At 580psi N2 at 32 MPa load	<1.75 Typical for 70lb/ft ³

ASME Gasket Factors

Max Gasket Unit Load:	24,000 psi (165.87MPa)
Max Operating Pressure:	Rated for ASME Class 150 or class 300 flanges
“m” Factor:	2
“y” Stress:	900 psi (6.22 MPa)


Department Manager Approval

3/19/13
Date