



# EGC Enterprises, Inc.

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## PRODUCT DATA SHEET

PDS-154

TITLE Thermafoil® LL (TF-LL) 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-LL Flexible Graphite is an uncured, adhesive bonded homogeneous laminate made with Thermafoil® B (TF-B) flexible graphite sheets. TF-LL contains an oxidation and corrosion inhibitor that allows for continuous use in temperatures ranging from -400°F to 975°F (-240°C to 525° This also reduces the potential for galvanic corrosion when in contact with steel or stainless steel. This material will seal a wide variety of liquids and gases over a large temperature range.

### Specifications:

Properties	Value	Tolerance	Test Method
Bulk Density:	70Lbs/ft <sup>3</sup>	±10%	ASTM F-1315
Ash Content:	2.0	Maximum	ASTM C-561
Carbon Content:	98%	Minimum	(100-ash-content)
Sulfur Content:	1000ppm	Maximum	Leco Combustion

### Characteristic

### Typical Property

Thickness of Laminate	.030(0.94mm) - .060 (1.19mm) Standard Non Standard thicknesses may be available upon request
Width	24" (610mm) Standard Non-Standard widths may be available upon request.
Length	24" (610mm) Standard 100' (30.5m) Standard Non-standard lengths may be available upon request.
Bulk Density (Graphite)	70lb/ft <sup>3</sup> (1.12g/cc) Standard Non Standard densities may be available upon request.
Compressibility At 5000psi (35Mpa) load	43% typical
Recovery After 5000psi (35Mpa) load	13% typical
Creep Relaxation Method: BSI-FI25 At 6000 psi (40 Mpa load up to 400°C	<3% typical
Seal ability Method: Mod DIN 3535 At 580 psi N <sub>2</sub> at 32 Mpa load.	<1.5ml/min typical for 70 lb/ft <sup>3</sup>

*Jennifer Khan*  
Department Manager Approval

*3/19/13*  
Date