



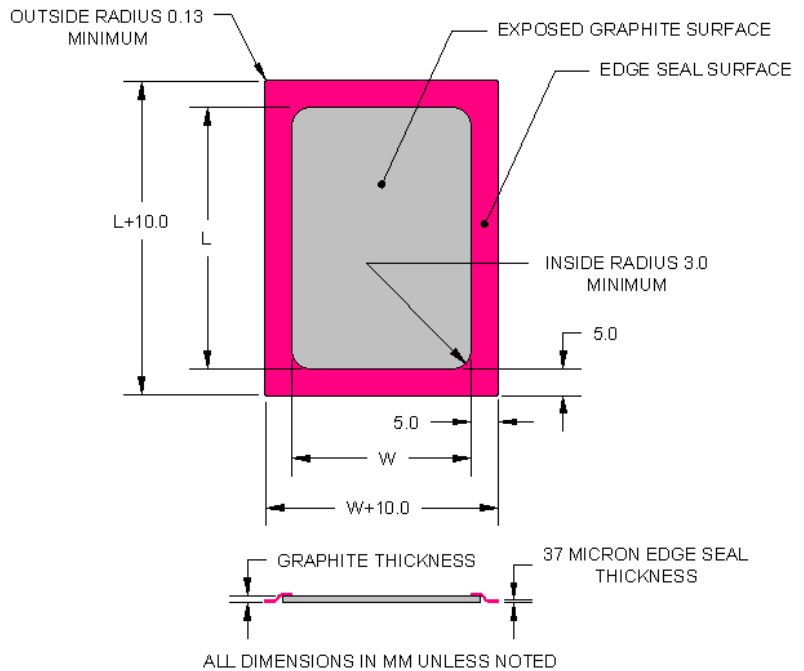
A unique method of attaching eGraf Thermal Interface materials is our Edge Seal product. This product allows attachment of the eGraf without the application of Pressure Sensitive Adhesive to the graphite. It also protects against any concern about flaking. Edge Seal consists of a polyester film, 25 microns thick, that extends over all edges of the thermal interface material and seals the edge of the graphite pad. The polyester film has a window in it that exposes the surface of the eGraf thermal interface material to the heat source (chip). The film extends 5 mm beyond all sides of the exposed area of the graphite material. A Pressure Sensitive Adhesive (PSA), 12 microns thick, coats the bottom of the exposed polyester film and is used to attach the Edge Seal to a heat sink.



Edge Seal can be applied to eGraf 700 and 1200 series material and to HiTherm™ materials. Because no adhesive is applied to the surface of the eGraf, its thermal properties are unchanged. The polyester film provides excellent conformability, strength and dimensional stability. eGraf materials with Edge Seal are available on convenient rolls for ease of application.

**Typical Dimensions of eGraf Edge Seal materials**

eGraf Edge Seal parts can be customized to each application. Design guidelines for typical Edge Seal components are shown below. The window in the polyester film should be sized to allow the graphite to fully contact the heat source. Typically 5 mm of Edge Seal extends beyond the exposed graphite surface. Although a rectangular component is shown below, other shapes can be produced. Please contact your GrafTech Sales representative for additional details.



**Specification of eGraf Edge Seal Material**

**Description:** 12 microns of high performance pressure sensitive adhesive on a 25 micron polyester film

**Polyester Color:**

eGraf 700 and 1200 Series	Blue
eGraf HiTherm	Red

**Service Temperature:**

Short Term (up to 36 hrs.)	200°C (392°F)
Long Term (indefinite)	175°C (347°F)

When applied to eGraf 700, 1200 and HiTherm materials, Edge Seal has a flammability rating of UL94V-0

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