NEOGRAF™ SOLUTIONS

eGRAF®

NeoNxGen™ Thermal Management Solutions

TECHNICAL DATA SHEET 600

Product Overview

eGRAF® NeoNxGen™ thermal management solutions family of products have been designed to provide a high performance, thick flexible graphite material for the most demanding thermal management challenges in the consumer electronics, medical, automotive, and energy storage applications. This new type of high-performance graphite enables single layer solutions where multiple layers of graphite were previously required. NeoNxGen graphite can be die-cut, or laminated with plastics and/or adhesives etc. to create easy to install solutions.

Typical Properties[1]

CHARACTERISTIC	UNIT	N-80	N-100	N-150	N-200	N-270
Thickness*	mm	0.080 ± 0.010	0.100 ± 0.010	0.150 ± 0.015	0.200 ± 0.020	0.270 ± 0.025
Thermal Conductivity[2] In Plane • Through-Plane	W/mK	900 • 4.5	1100 • 4.5	1100 • 4.5	1100 • 4.5	1100 • 4.5
Roll Width*	mm	240	240	200	240	200
Roll Length*	m			100		
Density	g/cm^3			2.0		
Bend Cycling [3] R4mm, 185°	cycles			>200,000 with No Change in Thermal Resistance		
Flammability Rating	UL			94 V-0		
Operating Temperature	°C			-40 to +400		
Lead / Halogen Free	-			Yes		
RoHS Compliant	-			Yes		

Notes:

[1] Properties listed are typical and cannot be used as acceptance or rejection criteria. Product characteristics exclude coatings and adhesives.

[2] In-plane thermal conductivity determined by 'NeoGraf Standard Method for Determination of Thermal Conductivity'; through-plane thermal conductivity determined using ASTM D5470 Modified method.

[3] Testing completed on N-150 grade with 10 micron thick PET film (P22 per NeoGraf Technical Data Sheet 322) adhered to both sides of the graphite.

* Customized thickness and roll dimensions may be available

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