

GRAPHITE SHEET STYLE : LG

PURE EXPANDED GRAPHITE



Material profile :

- Made of natural pure expanded graphite.

- **LG** is an impregnated homogeneous graphite sealing sheet made from industrial grade flexible graphite (carbon content > 98.0 %), which is free of adhesives, binders or fillers. The impregnation provides improved sealability, better handling properties and higher scratch.
- The material is typically used for large segmented gaskets of more than 1000 mm diameter, enamel/ glass flanges and inspection glasses, as well as for highly corrosive media such as HCl, to which stainless steel is not resistant.
- The material can be used for internal pressures of up to 40 bar and gasket pressures of up to 100 N/mm².
- Thicknesses: 0.5mm; 1.0mm; 1.5mm; 2.0mm, 3.0mm, 5.0mm, 6.0mm
Special specification upon requirement.
- Sheet sizes: 500 x 1000, 1000 x 1000, 1500 x 1500

Product survey

Product	Characteristics	Recommended applications
LG	Unreinforced impregnated	Raised face diameters up to 350 mm; large segmented gaskets; enamel; glass; highly corrosive media

Applications

- For gaskets meeting din 28091 in raised-face flange; recommended for diameters up to 350 mm.
- For large segmented gaskets of more than 1000 mm diameter; also suitable as top layer for corrugated steel rings.
- For internal pressure up to 40 bar and gasket pressures up to 100 N/mm².
- For enamel and glass, especially for inspection glasses.
- For highly corrosive media such as HCl, thanks to its outstanding resistance to chemicals
- For repairs and complicated configurations

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Properties

- Good scratch resistance, antistick finish.
- Low permeability to gases and liquids.
- Suitability for use at temperatures ranging from -250°C to approx.500°C.
For applications at more than 400°C, users should request our advice.
- Outstanding resistance to chemicals.
- Asbestos-free, presents no health hazard.
- No ageing or embrittlement, because of absence of binders.
- Long-term stability of compressibility and recovery over a wide temperature range.
- No measurable cold or warm flow up to maximum permissible compressive stress.
- Very good resistance to thermal shock.
- High residual stress.
- Ease of cutting or punching.
- Ability to compensate for any major unevenness.

Property	Standard	Data	Unit
Tolerance of thickness		±0.04	mm
Density		1.0	g/cm ³
Tolerance of density		±4	%
Compressibility	ASTM F36/A	35-55	%
Recovery	ASTM F36/A	≥9	%
Tensile strength	ASTM F152	≥4.0	Mpa
Leakage rate	DIN 3535	≤0.10	Mg/m.s
Compression factors	DIN 28091		
ε ksw		35-55	%
ε krw		3-5	%
ε wsw		<4	%
ε wrw		3-4	%
Resistant strength	DIN52913	>48	Mpa
Sulfur content	ASTM C 816	≤50	ppm
Chloride content	ASTM F1277	≤700	ppm
Fluoride content		≤30	ppm
Carbon content	JB/T 9141.6	99.0	%
Ash content	ASTM C561	≤1.0	%

Supply data :

- 1). Size in mm : 500 x 1000, 1000 x 1000, 1500 x 1500 or in rolls (except ≥ 1.5mmt.).
 - 2). Density , 0.7-1.1 g/cm³.
 - 3). Thickness, 0.2-2.0 mm (laminated or non-laminated). Relative with width.
- Special specification upon requirement.*