

TriboGuide G (L1G Wear Rings) is a high load composite bearing material constructed from a synthetic fabric reinforced thermoset resin and incorporating lubricating additives. The material features excellent mechanical strength, together with a low coefficient of friction.

Mechanical Properties

Ultimate compressive strength		
Flatwise (normal to laminate)	330	MPa
Edgewise (parallel to laminate)	100	MPa
Density	1.30	g cm ⁻³
Hardness	100	Rockwell M
Water swell (at 20 °C)	< 0.15	% wall thickness
Coefficient of friction	0.05 – 0.10	

Thermal Properties

Operating temperature		
Minimum	-40	°C
Maximum	120	°C
Intermittent	140	°C
Linear expansion coefficients		
Flatwise (normal to laminate)	7	10 ⁻⁵ / °C
Edgewise (parallel to laminate)	6	10 ⁻⁵ / °C

(above values are typical)

The above values are nominal and intended to be used as a guide only. Material testing is carried out in accordance with the relevant standard.