

# MBG-D

## EnCore® Combined Materials/Mechanically-Bonded Graphite

### Description

MBG-D is a high performance gasket material combining expanded graphite facings on 0.2mm (0.008") tang perforated tin-plated steel core. It is ideally suited for internal combustion engine applications such as head gaskets and exhaust flange gaskets. MBG is compressible and resilient, yet offers excellent bolt torque retention, excellent chemical resistance, and is heat resistant for exhaust gas sealing applications up to 550°C (1000°F) or higher when shielded. The typical values below were established using an overall thickness of 1.2mm (0.047").

### Typical Properties

Property	Value	Method
Density, g/cc(lb/cu.ft)	1.12 (70) (facings only)	ASTM F 1315
Compressibility, % (at 34.5MPa)	23 - 30	ASTM F 36
Recovery, %	20 - 28	ASTM F 36
Tensile Strength, AMD, MPa(psi)	34.5 (5000)	ASTM F 152
Creep Relaxation, %	8 - 12	ASTM F 38
Fluid Resistance, IRM903 Oil		ASTM F 146
Change in Thickness, %	4 - 8	
Change in Weight, %	18 - 23	
Fluid Resistance, Fuel B		ASTM F 146
Change in Thickness, %	3 - 6	
Change in Weight, %	14 - 18	

### Remarks and Related Documents

Typical values determined by the test methods required for ASTM F-104, Type 7 materials.

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For more information, please visit [www.InterfaceMaterials.com](http://www.InterfaceMaterials.com) or contact

TECHNICAL CENTER  
Lydall Performance Materials (US), Inc.  
215 Wohlsen Way  
Lancaster, PA 17603  
USA  
+1.717.207.6000

NORTH AMERICAN SALES OFFICE  
Lydall Performance Materials (US), Inc.  
22260 Haggerty Road, Suite 200  
Northville, MI 48167  
USA  
+1.248.596.2880

ASIA PACIFIC  
Interface Sealing Solutions Shanghai Co., LTD  
Unit 14F, No. 728  
Yan An Road West, Changning District  
Shanghai 200050  
China  
+8621.5238.5650

INDIA  
Lydall Performance Materials India LLP  
Mandkola Road, Vill. Atta, Sohna,  
Distt. Mewat, Nuh-122103 (Haryana)  
+91 8930992166

GERMANY  
Lydall Performance Materials Altenkirchen  
GmbH  
Koblenzer Straße  
57610 Altenkirchen  
Germany  
+49 26818002-0

EUROPE  
Lydall Performance Materials Europe  
Maison Lili Pean  
64240 Bonloc  
France  
+33 (0) 5.59.29.12.20