

M SEALS PTCBM-BLD56

Green Special Mineral Reinforced PTFE

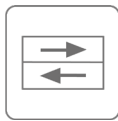
MATERIAL DATA SHEET (Version 6.0 – 05.2022)



High Temperature



Chemical Resistance



Low Friction

Description

M Seal' PTCBM-BLD56 is a special mineral reinforced and pigmented PTFE that helps provide increased durability when compared to standard virgin PTFE through its increased wear, and pressure resistance.

PTCBM-BLD56 is recommended for sealing components in light duty, dynamic reciprocating, rotating and oscillating applications requiring a PTFE material with improved properties over standard virgin PTFE.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Turquoise
Hardness	ASTM D2240	Shore D	≥51
Tensile strength (23°C)	ISO 527	N/mm ²	≥24
Elongation at break (23°C)	ISO 527	%	≥250
Tensile modulus	DIN 53457	N/mm ²	1200
Density	ASTM D792	g/cm ³	2.14-2.18
Coefficient of thermal expansion (25-100°C)	-	10 ⁻⁵ (mm/mm)/°C	12-13
Coefficient of friction	ASTM D41894	Points	0.06-0.08
Service temperature*		°C	-200/+260

* (Testing in application is mandatory)

Main Characteristics

- Increased wear resistance compared to virgin PTFE
- Extreme low friction properties
- Good replacement for virgin PTFE in dynamic duty
- Good in dry or poorly lubricated applications

Typical Products

- Spring energised seals
- Packing set V rings
- Valve stem seals
- Rotary composite seals

Typical Applications

Due to its improved durability in comparison to standard virgin PTFE, PTCBM-BLD56 is commonly used as a sealing material in various low duty applications where its low friction properties are of the utmost importance.

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: sales.esd@m-seals.co.uk . Web: www.m-seals.com

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