

DMR Material PTGM-WD57-M710

Norsok M-710 Glass Reinforced Modified PTFE (TFM)



MATERIAL DATA SHEET (Version 5.0 – 11.2017)



High Temperature



Chemical resistance



Deformation Resistance



Norsok M-710

Description

DMR Seals material PTGM-WD57-M710 is a Norsok M-710 approved modified PTFE compound (commonly referred to as TFM™) which has been reinforced via the addition of glass fibre. PTGM-WD57-M710 has a denser polymer structure, which provides the material with an almost 50% increase in deformation resistance against standard grades of PTFE. The unique polymer structure also provides improved stress recovery and a smoother surface finish of finished components in comparison to standard PTFE, which is of the upmost importance for critical sealing products, such as ball valve seats or spring energised seals used in the oil and gas industry.

Physical Properties

Property	Test method	Unit	Typical value
Colour			White
Density	ISO 13000-2	g/cm ³	2.10-2.25
Hardness	ISO 13000-2	Shore D	55-59
Tensile Strength	ISO 13000-2	MPa	>25
Elongation at break	DIN 53455	%	350-450
Service temperature*		°C	-200/+260

* (Testing in application is mandatory)

TFM™ is a registered trademark of 3M company

Main Characteristics

- Excellent deformation resistance
- Excellent permeation resistance
- Excellent stress recovery
- Excellent temperature & chemical resistance
- Smoother surface finish

Typical products

- Soft seat seals
- Spring energised seals
- Gaskets
- Static Seals & O-Rings
- Valve linings

Typical Applications

Due to its Norsok M-710 approval, excellent elasticity, deformation and permeation resistance, it should be considered that PTGM-WD57-M710 is a superb choice for soft seat seals and spring energised seals in valve applications in the oil and gas industry.

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