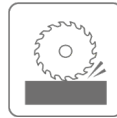


M SEALS PKFG30-CRD89-M710

Norsok M710 Compliant Glass Fibre Filled PEEK



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



Description

M Seals PKFG30-CRD89-M710 material is a high-performance Norsok M710 compliant glass fibre reinforced PEEK material. This material has excellent thermal resistance, high compressive strength, low wear properties and low creep values.

PKFG30-CRD89-M710 material is commonly used for guide rings, back-up rings, wear rings, bushes, valve seat seals, scraper seals and other applications requiring excellent compressive strength together with hydrolysis and steam resistance.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Beige
Density	ISO 1183	g/cm ³	1.53
Hardness	ISO 868	Shore D	89
Tensile Strength	ISO 527-2	MPa	113
Elongation at break	ISO 527-2	%	5
Modulus of elasticity	ISO 527-2	Mpa	6300
Glass transition temperature *	DIN 53765	°C	+147
Melting temperature	DIN 53765	°C	+341
Service temperature short term **		°C	+300
Service temperature long term **		°C	+260

* (Information found from public sources)

** (Individual testing in application conditions is mandatory)

Main Characteristics

- Excellent thermal resistance
- High compressive strength
- Good sliding ability
- Good creep resistance
- Good wear properties
- Hydrolysis & steam resistance

Typical Products

- Wear strip
- Bearing rings / guide rings
- Bushes
- Valve seat seals
- Anti-Extrusion / Back-Up Rings
- Bespoke parts

Typical Applications

Due to its excellent thermal resistance, compressive strength and sliding ability, this material is an excellent material choice for back-up ring applications where standard PEEK materials may not be suitable or where Norsok M-710 compliance is required. PKFG30-CRD89-M710 is commonly used within the Oil and Gas industry.

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