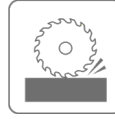
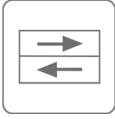


M SEALS PKTFE-CRD84

PTFE Filled PEEK



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



Description

M Seals PKTFE-CRD84 material is a high-performance PTFE lubricated PEEK material. This material has excellent sliding ability, excellent thermal resistance, high compressive strength, low wear properties and good chemical resistance.

PKTFE-CRD84 material is commonly used for guide rings, wear rings, bushes, valve seat seals and other applications requiring excellent low friction sliding ability and chemical resistance together with hydrolysis and steam resistance.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Beige
Density	ASTM D792	g/cm ³	1.39
Hardness	ASTM D2240	Shore D	78
Tensile strength	ASTM D638	MPa	≥75
Tensile modulus	ASTM D638	MPa	≥3
Elongation at break	ASTM D638	%	≥5
Flexural strength	ASTM D790	Mpa	≥90
Compressive strength	ASTM D695	Mpa	≥85
Glass transition temperature *	ASTM D3418	°C	+143
Melting temperature	ASTM D3418	°C	+341
Service temperature short term **		°C	+300
Service temperature long term **		°C	-50/+250

* (Information found from public sources)

** (Individual testing in application conditions is mandatory)

Main Characteristics

- Excellent thermal resistance
- Good chemical resistance
- 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, chemical resistance and sliding ability, this material is an excellent material choice for guide ring applications where standard PEEK materials may not be suitable or where lower frictional properties may be required. PKTFE-CRD84 is commonly used for valve seat seals in the oil and gas industry.

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