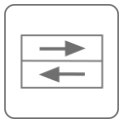
DMR Material PTX72-CRD60

Polymer Reinforced PTFE

MATERIAL DATA SHEET (Version 5.1 – 05.2019)


High Temperature


Chemical Resistance


Low Friction


Wear Resistance


FDA Compliant

Description

DMR PTX72-CRD60 is polymer reinforced PTFE that has outstanding wear and temperature resistance and does not wear hardware surfaces. It resists wear better than most other filled PTFE materials, it has excellent chemical resistance, low thermal expansion and some of the lowest friction properties of any PTFE, making it ideal for start/stop applications. This grade has improved improved thermal conductivity and higher PV values over our standard PTX84-CRD60 grade of material and is also FDA compliant.

PTX72-CRD60 is recommended for use with soft (un-hardened) metals or plastics and applications involving gases or high temperature. It should ***not*** be used in any applications where steam, concentrated Sulphuric acid and strong Alkalis are present.

Physical Properties

Property	Test method	Unit	Typical value
Hardness	DIN 53505	Shore D	59-62
Tensile Strength (23°C)	DIN 53455	N/mm^2	23-27
Elongation at break (23°C)	DIN 53455	%	240-320
Tensile Modulus	DIN 53457	N/mm^2	820
Density	ISO 12086	g/cm^3	2.03-2.09
Ball Pressure Hardness	DIN53456	N/mm^2	62-68
Coefficient Of Thermal Expansion (20-100°C)	-	$1/K.10^{-5}$	10
Coefficient Of Thermal Expansion (150-260°C)	-	$1/K.10^{-5}$	13
Deformation after 24h @ 23°C	ASTM-D621	%	10
Wear $K.10^{-8}$	DIN 53481	$cm^3.min/kg.m.h$	6.5

Main Characteristics

- Excellent wear resistance
- Capable of high PV values
- Extreme low friction properties
- Does not abrade mating surfaces
- Excellent in dry or poorly lubricated applicactions
- FDA Compliant material

Typical products

- Spring energised seals
- Wear rings
- Bearing rings / guide rings
- Packing set V rings
- Valve stem seals
- Rotary seals

Typical Applications

Due to its excellent low friction values, wear resistance and low abrasion properties PTX72-CRD60 is commonly used as a sealing material for spring energised seals, rotary seals and packings in various applications .

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