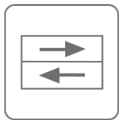
M SEALS **PTE25-CRD58**

Polymer Reinforced PTFE

MATERIAL DATA SHEET (Version 6.0 – 05.2022)


High Temperature


Chemical Resistance


Low Friction


Wear Resistance

Description

PTE25-CRD58 is a filled proprietary polymer reinforced PTFE that has outstanding wear and temperature resistance and does not wear metallic surfaces, it is commonly referred to as Ekonol® filled PTFE. PTE25-CRD58 resists self-wear better than most other filled PTFE materials, it has good chemical resistance, combined with very low thermal expansion, making it a unique filled grade of PTFE.

PTE25-CRD58 is recommended for use with soft (un-hardened) metals and applications involving gases, high temperature and aggressive environments where it increased wear resistance is required. 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
Colour			Beige
Density	ASTM D792	g/cm3	1.80-2.0
Hardness	ASTM D2240	Shore D	>56
Tensile Strength	ISO 527	N/mm^2	>7
Elongation at break	ISO 527	%	>150
Service temperature *		°C	-200 to +260

Ekonol® is a registered trademark of SOHIO Co

Main Characteristics

- Good compressive strength
- Good sliding ability
- Excellent resistance to wear
- Lower creep rate compared to unfilled / Virgin PTFE
- Excellent high temperature resistance

Typical Products

- Spring energised seals
- Wear strip
- Bearing rings / guide rings
- Bushes
- Valve seat seals

Typical Applications

PTE25-CRD58's unique anti wear properties and high temperature resistance make it an excellent material choice for rotary seals or high frequency dynamic applications working on soft / un-hardened metals in aggressive environments.

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