

M SEALS FC815

Mineral Filled PTFE



- Part of Diploma PLC

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



High Temperature



Chemical resistance



Compressive Strength



FDA Compliant



Wear Resistant

Description

M Seals FC815 material is a white FDA Compliant PTFE which has been reinforced with a mineral filler which provides the material with increased compressive strength and wear resistance.

FC815 PTFE material is commonly used for seals, bushes and wear rings in food industry applications due to its FDA compliance.

Physical Properties

Property	Test method	Unit	Typical value
Colour			White
Density	ASTM D792	g/cm ³	2.17-2.25
Hardness	ASTM D2240	Shore D	≥55
Tensile strength (cross direction)	ASTM D4745	N/mm ²	≥14
Elongation at break	ASTM D4745	%	≥200
Compressive strength (1% deformation)	ASTM D695	N/mm ²	≥5
Wear factor (PV = 0.7 N/mm ² · m/s)	ASTM D3702	µm/h. N/mm ² .m.min	0.015-0.023
Service temperature *		°C	-200 to +260

* (Individual testing in application conditions is mandatory)

Main Characteristics

- Good compressive strength
- Good deformation resistance
- Good chemical resistance
- FDA compliant

Typical Products

- Back-up Rings
- Thrust washers
- Bushes
- Valve seat seals

Typical Applications

Due to its compliance in food contact applications, good compressive strength, deformation and wear resistance, FC815 is a good material choice for seals and wear rings within the food industry.

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