

M SEALS NBRFQ-W85

White FDA compliant Sulphur cured Nitrile Rubber

M SEALS
- Part of Diploma PLC

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



FDA Compliant



ADI Free

Description

M Seals material NBR-FQ-W85 is a white Sulphur cured Nitrile-Butadiene-Rubber (NBR) which has been migration tested in accordance with FDA 21 CFR 177.2600 and meets the requirements of EC1935/2004 regulations. This fantastic attribute makes NBRFQ-W85 a good choice for seals and other elastomeric parts which require good chemical and/or fluid compatibility while working in food and beverage applications.

Physical Properties

Property	Test method	Unit	Typical value
Colour			White
Density	ISO 1183-1	g/cm ³	1.38
Hardness @ 23°C	ISO 7619-1	Shore A	85
100% Modulus	DIN 53504	N/mm ²	5.8
Tensile Strength	DIN 53504	N/mm ²	10.6
Elongation at break	DIN 53504	%	285.1
Tear resistance	ISO 34-1 A	N/mm	7.2
Rebound resilience	DIN 53512	%	23
Compression set (24 Hours @ 70°C, 25%)	ISO 815-1	%	11
Compression set (24 Hours @ 100°C, 25%)	ISO 815-1	%	14.3
Minimum service temperature		°C	-22
Maximum service temperature		°C	+100

Global migration results of FDA extraction on NBRFQ-W85 material samples (mg/inch ²)				
FDA test method	Reflux test conditions	Mass Loss	Limit*	Conclusion
CFR 177.2600 (e)	De-ionised water, 7 hours	9.7	20	PASS
CFR 177.2600 (e)	De-ionised water, 2 hours	<1	1	PASS
CFR 177.2600 (f)	N-hexane, 7 hours	15.5	175	PASS
CFR 177.2600 (f)	N-hexane, 2 hours	<1	4	PASS

* Maximum acceptable global migration according to FDA CFR 177.2600

Main Characteristics

- FDA Compliant
- Migration tested in accordance with EC1935/2004 regs
- Animal Derived Ingredient Free (ADI Free)
- Good rebound behaviour
- Useful temperature range

Typical Products

- Triclover seals
- RTJ seals
- DIN 11851 D-Seals
- Static Seals & O-Rings
- Depositor seals