

RT-NBR50-BK

Nitrile (NBR) · soft · black · 50 Sh A

Product overview

Material family	Nitrile (NBR)
Colour	Black
Available thicknesses	1 · 2 · 2.5 · 3 · 4 · 5 · 6 · 8 · 10 · 15 · 20 mm
Roll width	1400 mm
Roll length	20000 mm
Typical use	Resistant to oils, greases and fuels.

Certifications & compliance

- REACH, RoHS and PAH compliant

Technical properties

Property	Test method	Typical value
Specific gravity	DIN 53508 / ASTM D297	1.45 ± 0.05
Hardness	DIN 53505 / ASTM D2240	50 ± 5 Sh A
Tensile strength (min)	DIN 53504 / ASTM D412	858 PSI / 40 kg/cm ²
Elongation at break (min)	DIN 53504 / ASTM D412	200%
Compression set (70°C/24 h/25% compression) (max)	DIN 53517 / ASTM D395 METHOD B	40 %
Tear resistance (angular) min	DIN 53515 / ASTM D624	100 lbs/inch / 18 kg/cm
Change in properties after heat ageing for (72 h at 70 °C)		ASTM D573
Hardness (pts)		+15 (max) / +5 (max)
Tensile strength (%)		± 20% (max)
Elongation at break (%)		± 30% (max)
Volume swell: at 70°C for 72 h	ASTM D471	
In IRM oil No. 901		+ 33%
In IRM oil No. 902		+47%
In IRM oil No. 903		+90 %
Chemical resistance		
Ozone	ASTM D1149	Fair
Dilute acids and bases		Not recommended
Concentrated acids and bases		Not recommended
Oils		Not recommended
Solvents		Not recommended
Temperature range		-30 °C to +90 °C