TECHNICAL DATA SHEET

RT-NR45-YE

Natural rubber (NR) · anti-abrasion · yellow · 45 Sh A

Product overview

Material family	Natural rubber (NR)
Colour	Yellow
Available thicknesses	3 · 4 · 5 · 6 · 8 · 10 · 15 · 20 mm
Roll width	1500 mm
Roll length	10000 mm
Typical use	High abrasion resistance and resilience; not oil resistant.

Certifications & compliance

- REACH, RoHS and PAH compliant

Technical properties

Property	Test method	Typical value
Specific gravity	DIN 53508 / ASTM D297	1.10 ± 0.05
Hardness	DIN 53505 / ASTM D2240	45 ± 5 Sh A
Tensile strength (min)	DIN 53504 / ASTM D412	2137 PSI / 150 kg/cm²
Elongation at break (min)	DIN 53504 / ASTM D412	600%
Compression set (70°C/24 h/25% compression) (max)	DIN 53517 / ASTM D395 METHOD B	30 %
Tear resistance (angular) min	DIN 53515 / ASTM D624	168 lbs/inch / 30 kg/cm
Abrasion resistance (max)	DIN 53516 / ASTM D5963	102 mm³ (5 N)
Change in properties after heat ageing for (72 h at 70 °C)	ASTM D573	
Hardness (pts)		+5 (max)
Tensile strength (%)		+10 / - 15
Elongation at break (%)		+10 / - 25
Volume swell: at 70°C for 72 h	ASTM D471	
In IRM oil No. 901		Not recommended
In IRM oil No. 902		Not recommended
In IRM oil No. 903		Not recommended
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		-25 °C to +70 °C