VRPREMIUM Nitrile (NBR)

VRTRADE

MECHANICAL	Standard	Value		Test Method
Rubber compound		NBR		
Density	DIN 53508	1.35 +/-0.05	g/cm3	ASTM D297
Hardness	DIN 53505	65^0 +/-5	Shore A	ASTM D2240
Tensile strength	DIN 53504	10	MPa	ASTM D412
Elongation at break	DIN 53504	≥ 350	%	ASTM D412
Tear resistance	DIN 53515	25	Kg/cm	ASTM D624
Compression set after 24h at 70^0C	DIN 53517	30	%	ASTM D395
TEMPERATURE				
Working temperature		-30^0 C - $+110^0$C		
HEAT AGEING (72 hrs. at 70^0C)				
Δ Hardness		+4 max	pts	
Δ Tensile		+10/-10	%	
Δ Elongation at break		+10/-20	%	
OIL RESISTANCE				
Astm Oil no.1, Δ volume after 72h at 70^0C		-2	%	
Astm Oil no.2, Δ volume after 72h at 70^0C		+4	%	
Astm Oil no.3, Δ volume after 72h at 70^0C		+15%	%	

CHEMICAL RESISTANCE

Diluted acids and bases	Good
Concentrated acids and basis	Not suitable
Ozone and UV	Medium
Oils and hydrocarbons*	Excellent

* not for Bio-fuels, oils and lubricants