

RHONDAMA LIMITED T-NBR

T-NBR Hardness 83° Shore A Black

Nitrile butadiene rubber for low temperature applications

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Black		Black
Hardness	23°C	ISO 868	Shore A	83±5	Shore A	83±5
Modulus 100%	23°C	DIN 53 504	MPa	≥9	Psi	≥1305
Tensile strength	23°C	DIN 53 504	MPa	≥14	Psi	≥2031
Elongation at break	23°C	DIN 53 504	%	≥160	%	≥160
Tear strength	23°C	DIN 53 515	kN/m	≥5	Ibf/inch	≥29
Spec. gravity	23°C	ISO 1183	Kg/m ³	1260	g/cm ³	1,26
Rebound elasticity	23°C	DIN 53 512	%	≥50	%	≥50
Abrasion	23°C	DIN 53 516	mm ³		mm ³	
Compression set	*	ISO 815	%	≤6	%	≤6
Compression set	**	ISO 815	%	≤9	%	≤9
Compression set	***	ISO 815	%		%	
Minimum service temperature			°C	-50	°F	-58
Maximum service temperature			°C	100	°F	212
* 24 h 70°C 25% deflection ** 24h 100°C 25% deflection *** 24h 150°C 25% deflection						

Chemical Properties

Copolymer, based on butadiene and acrylonitrile

Resistant to: oil, petrol, crude oil

Not resistant to: conc. acids, conc. lyes, polare solvents

Detailed information concerning chemical resistance see Rhondama Compatibility Chart