



Hydrogenated nitrile butadiene rubber(HNBR)

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HDR-HNBR COMPOUND

All Kinds Of Applications

Production Data Sheet

Introduction

HDR Hydrogenated NBR(HNBR) features high strength as well as resistance to heat, sour gasoline and ozone. The low-temperature resistance grade provides outstanding physical properties across a wide range of temperatures, from -40℃ to 150℃, with some special formulas, the temperature can reach 160 ℃. At the same time, it is resistant to hydrogen sulfide and new refrigerant.

Features

- 40-95 Shore A Hardness
- Available in various colors
- Can meet food level requirements

Applications

- Refrigerant resistant R134A, R1234YF and other special materials
- Oilfield oil spindles, centralizers and packers
- Special material for screw pump
- Gas diaphragm [artificial gas, natural gas or liquefied petroleum gas]
- Industrial rubber roller
- Electric tools
- High-strength O-ring of mining machinery
- High speed wire sealing wear-resistant and heat-resistant special material in steel plant

Product Basic Formula

Materials	PHR
ZN35158	50
ZN35258	50
445	1
NC105	4
N774	30
N550	20
TOTM	6
TMPTMA	2
BIPB-40C	8
TOTAL	171

Physical Properties

Application			O-ring	Oil Seal	Oil Seal	O-ring
Colour			Black	Black (Light Grey)	Bright Black	Black
Model number			HDR-H60140P	HDR-H70110AP	HDR-H70150AP	HDR-H80170P
Hardness			60~65	70~75	70~75	80~85
Original Properties	Unit	Test Methods	Value	Value	Value	Value
Shore A hardness	Points	D-2240	62	72	73	80
Tensile strength	Mpa	D-412	27	20.66	24.3	21.7
Elongation	%	D-412	481	329	421	317
Tear resistance	Kg/cm	D-624(Die C)	*	52	58	56
Specific Gravity	*	*	1.077	1.337	1.202	1.242
Compression set 150℃@22hrs	%	D-395	21	14	19	13
Heat resistance 150℃@70hrs						
Hardness change	Points	D-573	+5	+4	+4	+5
Tensile strength change	%	D-573	+13	+2	-13	0
Elongation change	%	D-573	-16	-14	-6	-43
volume change	%	D-573	-2.1	-1.6	-1.5	-4
#101 fluid resistance 150℃@70hr						
Hardness change	Points	D-471	0	+2	+1	+5
Tensile strength change	%	D-471	+5	+11	+7	+7
Elongation change	%	D-471	-12	-10	-12	-11
volume change	%	D-471	-3.5	-6.9	-3.8	-8
#903 fluid resistance 150℃@70hr						
Hardness change	Points	D-471	-9	-6	-7	-1
Tensile strength change	%	D-471	-8	+1	+1	-4
Elongation change	%	D-471	-14	-12	-10	-21
volume change	%	D-471	+14.1	+6.8	+10.3	+6
Low-temperature	℃	D-2137	-45	-40	-40	-38
Test Slabs Cure Condition						
Press Cured: 170℃* 10mins; Post Cured: 150℃*4hrs						

HDR Compound Products Contact

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If you have any other inquires, please contact our business representatives
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