HNBR O-Rings

Description:

HNBR o-rings are known throughout the industry as a strong and durable. The material will retain its properties even after long-term use in heat, oil and chemicals. HNBR can be used as an effective o-ring sealing material in the automotive industry for Engine seals, grommets, gaskets, A/C seals and hoses, as well as many other uses. In industrial applications, HNBR o-rings have been used for heat exchanger gaskets, blow-out preventers, and paper mill rolls.

HNBR is a more specialized version of NBR created by dissolving emulsion-polymerized NBR into the appropriate solvent. Hydrogen gas is then introduced into the mixture utilizing a precious metal as a catalyst. When produced using the proper temperature and pressure, this process creates a selective hydrogenation and yeilds "Highly Saturated Nitrile" or HSN, also called HNBR

Typical Properties:

Specific Gravity (DIN 53479):	1.23g/cm3
Hardness at 20°C (DIN 53505):	85(Shore A)
Tensile Strength (DIN 53504):	>18 N/mm2
Elongation at break (DIN 53504):	>200%
Compression set 22h / 70°C (DIN 53517A):	20%
Compression set 22h / 100°C (DIN 53485):	22%
Min. Service Temperature:	-13°F(-25°C)
Max. Service Temperature:	302°F(150°C)

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