

Dawn Special Elastomer Company is an enterprise that develops, produces, and sells HNBR products with high technology content and high added value, and at the same time extends the processing and production of mixed rubber to downstream. The hydrogenated nitrile rubber plant has a designed capacity of 3,000 tons per year, and the first phase of 1,000 tons was officially produced in 2019. The hydrogenated nitrile rubber HNBR produced by Dawn Special Elastomer Co., Ltd makes China the third country in the world to break through HNBR technology in industrialization besides Germany and Japan.

Typical Data

Item	Test Method	Unit	DN3408	DN3418	DN3428	DN3448
Acrylonitrile Content	ISO24698-2	%	34	34	34	34
Mooney Viscosity	ISO289	ML ₁₊₁₀₀ °C	88	88	88	85
Iodine Value	ISO17564	mg/100mg	10	15	28	48
Hydrogenation Degree	ISO14558	%	99	97	94	88

- Attention: Above values are only typical performance values, not as product performance limits.
- Package: 25kg/carton or 800kg/iron case.
- SH/T: Recommended Standards for Petrochemicals
- GB/T: China National Recommended Standards

Property

Highly saturated elastomer which is treated by special hydrogenation. Compared with NBR, the molecular structure of HNBR contains a small amount or no carbon-carbon double bonds. It also has better thermal oxygen aging (working at 150°C for a long time), ozone resistance, medium resistance (good resistance to hydrogen sulfide) and good dynamic properties, while maintaining the oil resistance and wear resistance of NBR.

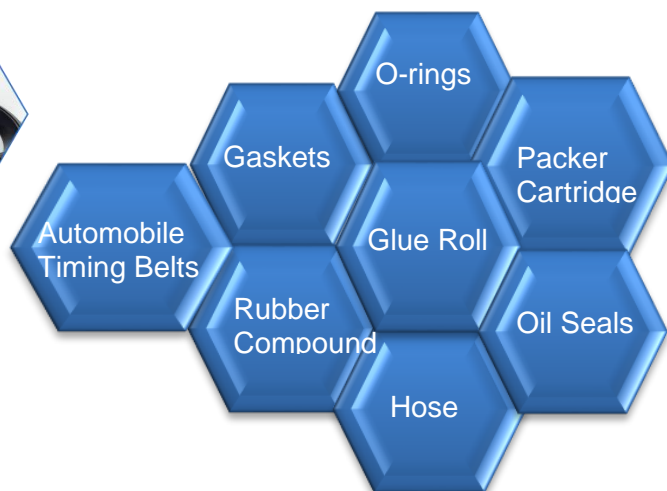


Application

The hydrogenated nitrile rubber produced by Dawn Special Elastomer has wide-ranging applications in high-end sectors such as automotive manufacturing, oilfield drilling, aerospace, and defense, such as oil exploration gaskets, new energy vehicle motor seals, automotive timing belts, refrigerant-resistant O-rings, and aircraft oil pipes.

Advantages

Dawn Special Elastomer Material Co., Ltd. is the professional and advanced HNBR manufacturer in China. Adopt self-developed core catalysts.



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