

RN00 Series

High Performance NBR Rubber



Product Description

EndoChem RN00 Series is a compression molded NBR rubber.

Features

- Low Compression Set
- REACH / ROHS Compliant / Halogen Free

Applications

EndoChem RN00 Series NBR rubber is typically used for applications in consumer electronics, medical equipment, automotive and industrial markets that require a clean, low compression set, and compliant material.

Typical Properties

Product Line	RN0045	RN0060	RN0070	RN0080
Density (g/cm ³) ASTM D792	1.19	1.29	1.32	1.28
Hardness ASTM D2240 Type A Durometer 1kg loading after 15s	45	60	70	80
Tensile Strength (MPa) ASTM D412 Die C	9.56	13.34	13.86	15.16
Tear Strength (kN/m) ASTM D624 Die C	35.31	39.51	42.31	59.29
Elongation (%) ASTM D412	> 100	> 70	> 50	> 50
Compression Set (%) ASTM D395 Method B 22 hr at 25°C (77F)	4.9	6.6	8.9	25.9
Compression Set (%) ASTM D395 Method B 22 hr at 70°C (158F)	19.5	22.2	26.0	34.7
RoHS Compliance	Yes	Yes	Yes	Yes
REACH Compliance	Yes	Yes	Yes	Yes
Halogen Free	Yes	Yes	Yes	Yes

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Typical Properties Continued

Tensile Load Deflection ASTM D412 500mm/min	RN0045	RN0060	RN0070	RN0080
Force at 10% Elongation (MPa)	0.48	0.97	1.61	2.08
Force at 20% Elongation (MPa)	0.62	1.29	1.96	2.46
Force at 30% Elongation (MPa)	0.75	1.60	2.32	2.74
Force at 40% Elongation (MPa)	0.85	1.88	2.67	2.96
Force at 50% Elongation (MPa)	0.95	2.23	3.08	3.22
Force at 100% Elongation (MPa)	1.74	NA	NA	NA
Force at 200% Elongation (MPa)	NA	NA	NA	NA

Storage and Shelf Life

Recommended storage in a temperature controlled room at 18-25°C with a 50% nominal relative humidity. Under these conditions, shelf life is good for up to 6 months from the date of manufacture.

Warranty and Disclaimer: The user is solely responsible for evaluating the product and determining whether it is acceptable for use and suitable for the user's method of application. EndoChem warrants that each product meets the applicable EndoChem product specification at the time of shipment. If the EndoChem product does not conform to this warranty, then the sole and exclusive remedy is, at EndoChem's option, replacement of the product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, EndoChem will not be liable for any loss or damage arising from the EndoChem product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

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