

# RB03 Series

Bio-Based Damped Rubber



## Product Description

EndoChem RB03 Series is a specially formulated, environmentally friendly, bio-based damped rubber

### Features

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

## Applications

EndoChem RB03 Series is an environmentally friendly, bio-based, damped rubber with high anti-shock and anti-vibration performance used in consumer electronics, medical equipment, automotive and industrial markets

## Typical Properties

Product Line	RB0325	RB0345	RB0370
Density (g/cm <sup>3</sup> ) ASTM D792	1.16	1.21	1.26
Hardness ASTM D2240 Type A Durometer 1kg loading after 15s	25	45	70
Tensile Strength (MPa) ASTM D412 Die C	6.20	7.75	8.50
Tear Strength (kN/m) ASTM D624 Die C -EC	13.50	15.00	22.00
Elongation (%) ASTM D412	> 500	> 400	> 230
Compression Set(%) ASTM D395 Method B 22 hrs at 25°C	12.6	13.8	12.0
Compression Set(%) ASTM D395 Method B 22 hrs at 70°C	29.8	29.5	28.0
Damping Performance @ 10Hz	2.00 @ -7°C	1.36 @ -2°C	0.71 @ -11°C
Operating Temperature Range (°C)	0 to 70	0 to 70	0 to 70
UL94 Flammability Rating	HB	HB	HB
RoHS	Yes	Yes	Yes
REACH	Yes	Yes	Yes
Halogen Free	Yes	Yes	Yes

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## Typical Properties Continued

Compression Load Deflection ASTM D575 10mm/min			
Product Line	RB0325	RB0345	RB0370
Force at 10% compression (MPa)	0.44	0.90	2.04
Force at 20% compression (MPa)	0.96	1.94	4.10
Force at 30% compression (MPa)	1.74	3.63	7.06
Force at 40% compression (MPa)	3.12	6.59	11.80
Force at 50% compression (MPa)	5.66	11.44	13.32

Tensile Load Deflection ASTM D412 500mm/min			
Product Line	RB0325	RB0345	RB0370
Force at 10% compression (MPa)	0.24	0.51	1.70
Force at 20% compression (MPa)	0.34	0.67	2.04
Force at 30% compression (MPa)	0.40	0.78	2.32
Force at 40% compression (MPa)	0.45	0.88	2.55
Force at 50% compression (MPa)	0.49	0.99	2.79
Force at 100% compression (MPa)	0.68	1.58	4.00
Force at 200% compression (MPa)	1.14	2.91	7.44

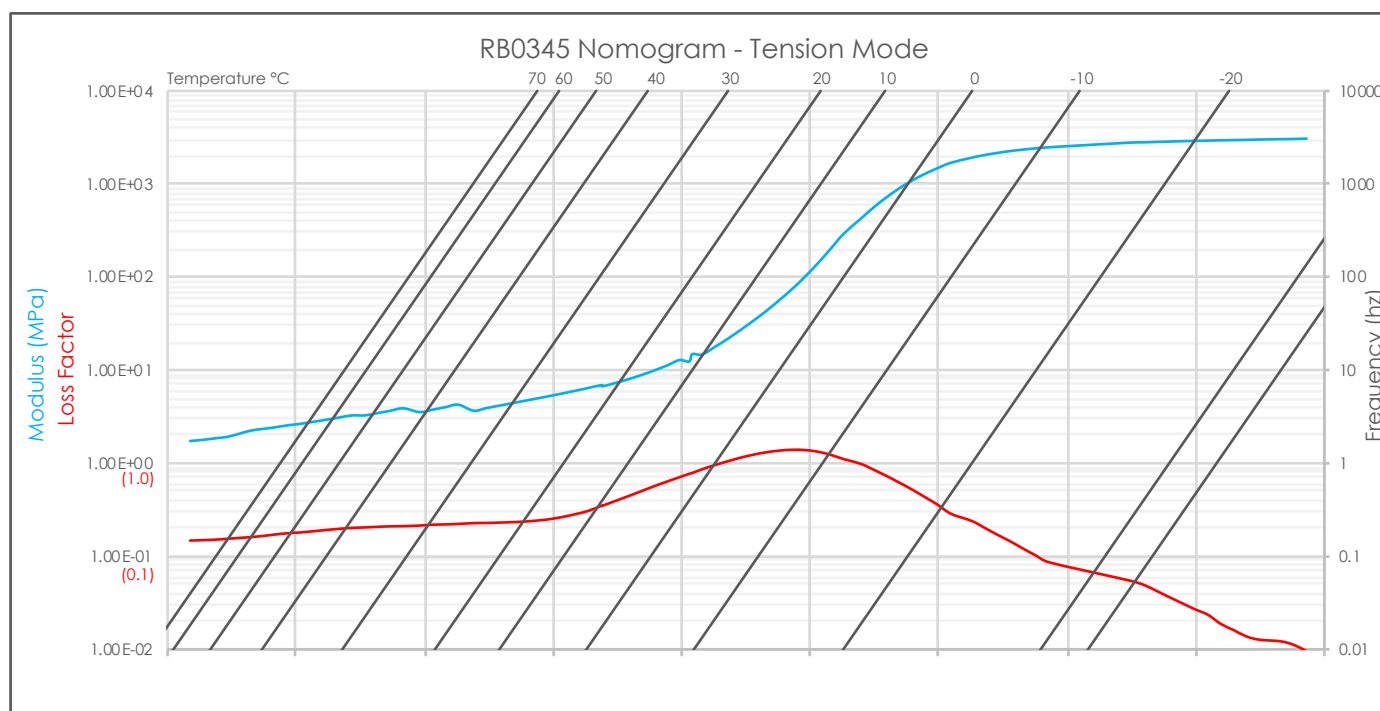
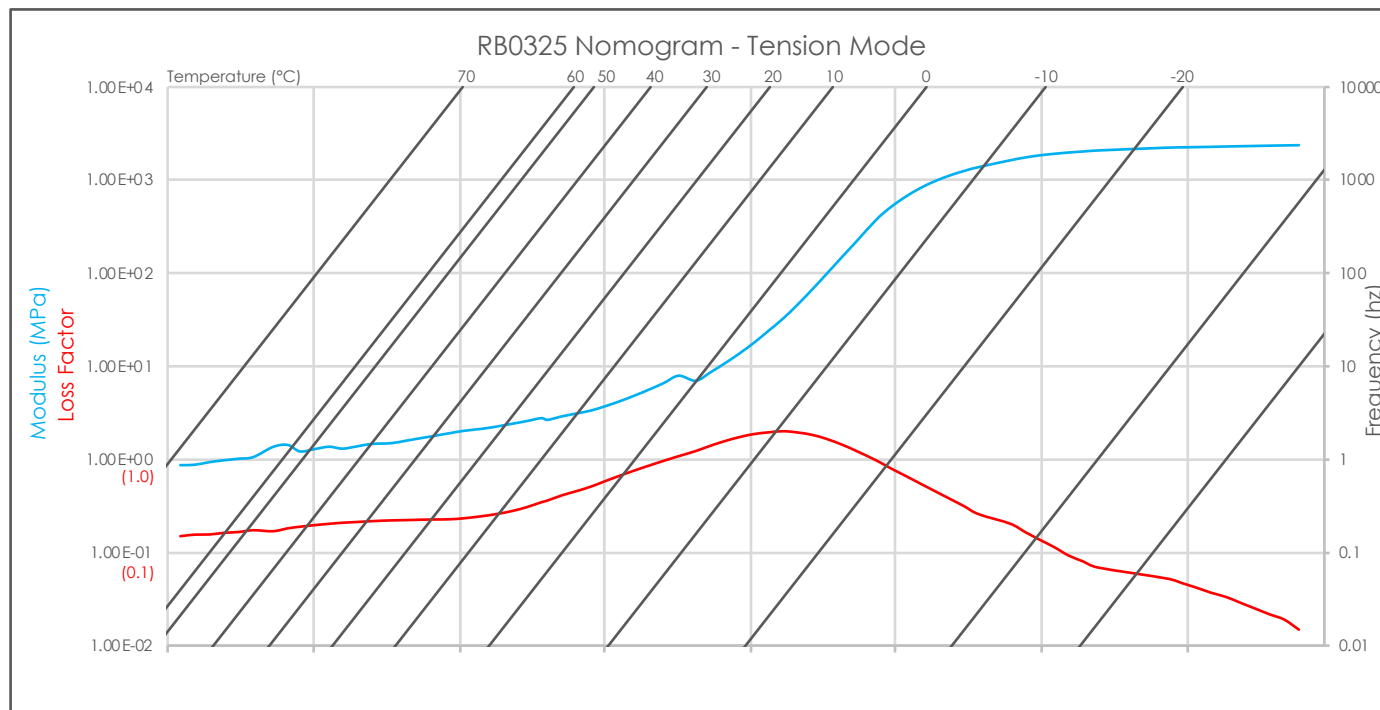
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## Typical Properties Continued

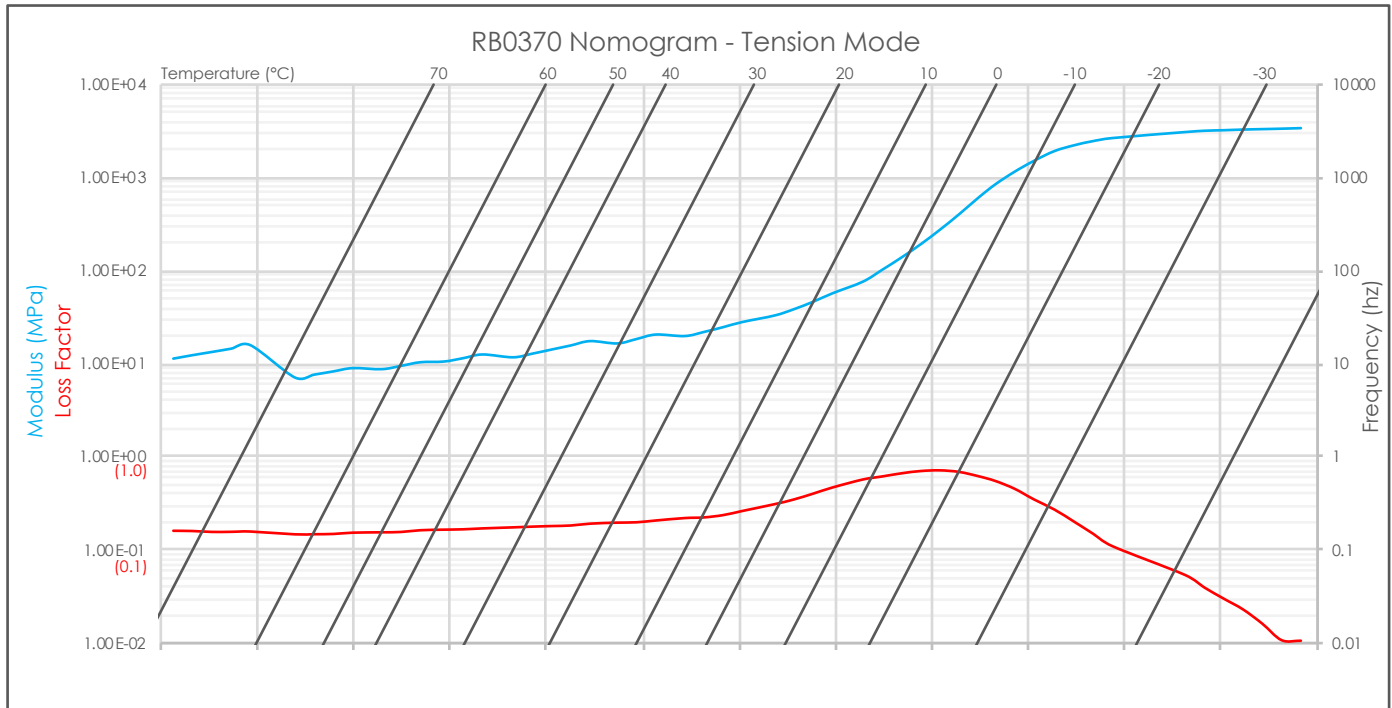


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## Typical Properties Continued



## 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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