

# SS02 Series

High Performance Silicone Rubber



## Product Description

EndoChem SS02 Series is a compression molded high performance silicone rubber.

### Features

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

## Applications

EndoChem SS02 Series High Performance Rubber is typically used for applications that require high performance rubber that can maintain optimal material performance across a wide temperature range and environmental conditions.

## Typical Properties

Part Number	SS0220	SS0230	SS0240
Density (g/cm <sup>3</sup> ) ASTM D792	1.07	1.10	1.14
Hardness ASTM D2240 Type A Durometer	20	30	40
Tensile Strength (MPa) ASTM D412 Die C	4.00	5.00	5.50
Tear Strength (kN/m) ASTM D624 Die C Modified	8.50	10.50	11.50
Elongation (%) ASTM D412	> 500	> 400	> 300
Compression Set(%) ASTM D395 Method B 22hrs at 25°C	11.6	11.8	12.5
Compression Set(%) ASTM D395 Method B 22hrs at 70°C	25.0	28.1	28.0
Damping Performance @ 10Hz	0.35 @ -22°C	0.40 @ -27°C	0.42 @ -29°C
Operating Temperature Range (°C)	0 to 70	0 to 70	0 to 70
RoHS Compliant / REACH Compliant	Yes / Yes	Yes / Yes	Yes / Yes
Halogen (Cl + Br ppm)	< 1500	< 1500	< 1500

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## Typical Properties Continued

Compression Load Deflection ASTM D575 10mm/min	SS0220	SS0230	SS0230
Force at 10% Compression (MPa)	0.23	0.34	0.58
Force at 20% Compression (MPa)	0.51	0.79	1.23
Force at 30% Compression (MPa)	0.85	1.33	1.97
Force at 40% Compression (MPa)	1.29	2.05	2.96
Force at 50% Compression (MPa)	2.00	3.20	4.65

Tensile Load Deflection ASTM D412 500mm/min	SS0220	SS0230	SS0230
Force at 10% Elongation (MPa)	0.14	0.24	0.36
Force at 20% Elongation (MPa)	0.22	0.34	0.50
Force at 30% Elongation (MPa)	0.27	0.39	0.60
Force at 40% Elongation (MPa)	0.31	0.44	0.69
Force at 50% Elongation (MPa)	0.33	0.48	0.77
Force at 100% Elongation (MPa)	0.43	0.73	1.33
Force at 200% Elongation (MPa)	0.69	1.54	2.74

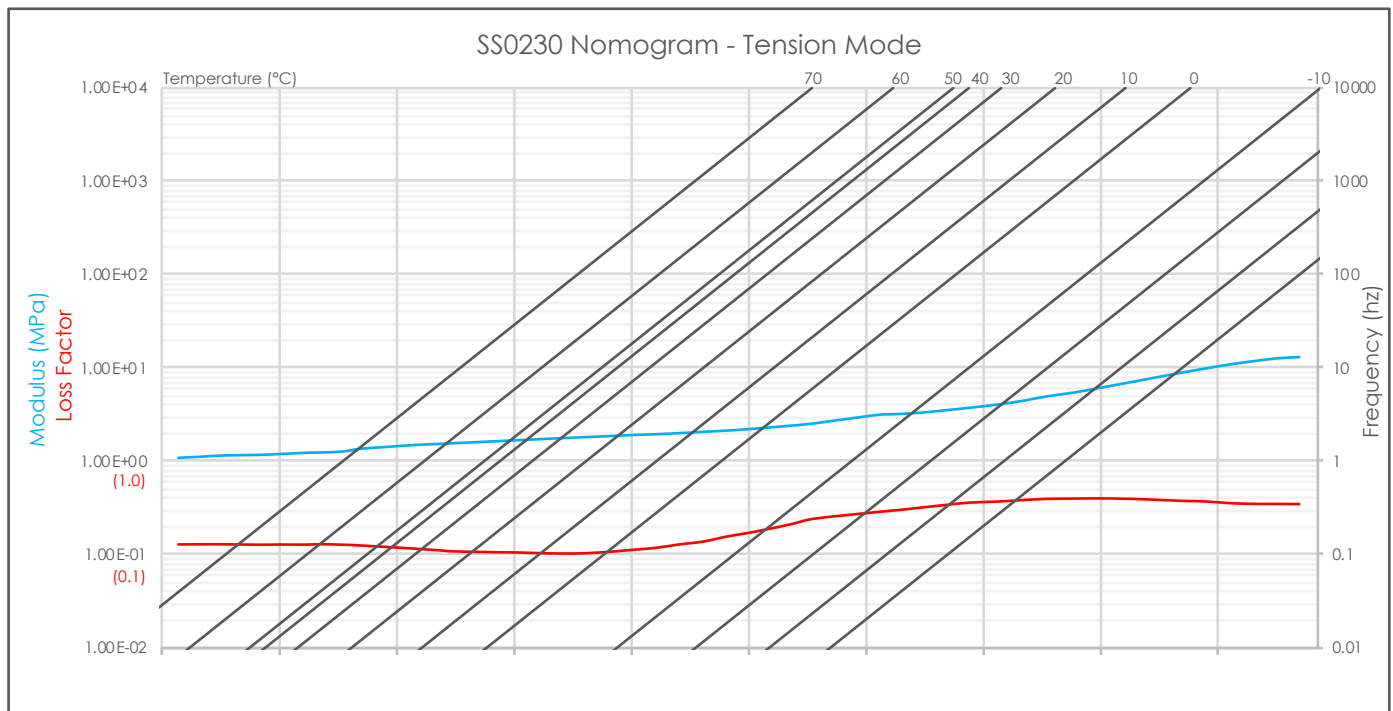
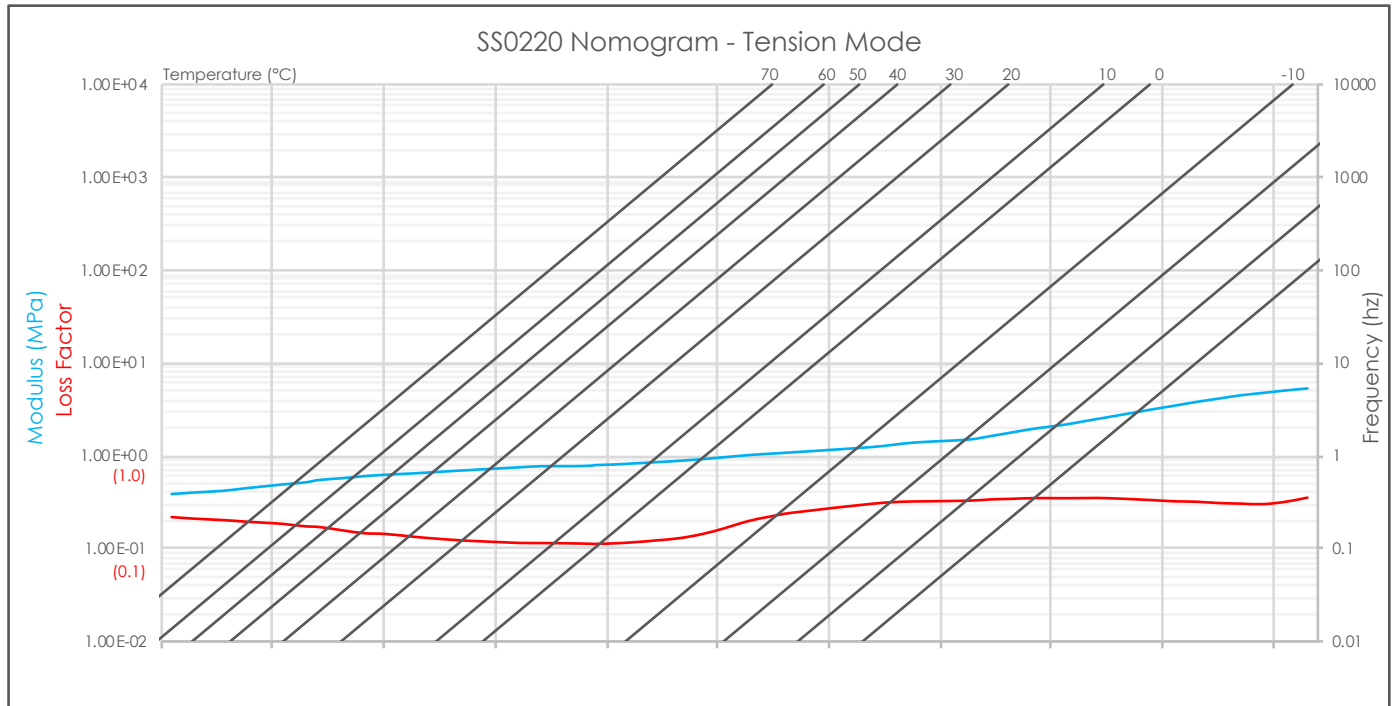
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## Typical Properties Continued

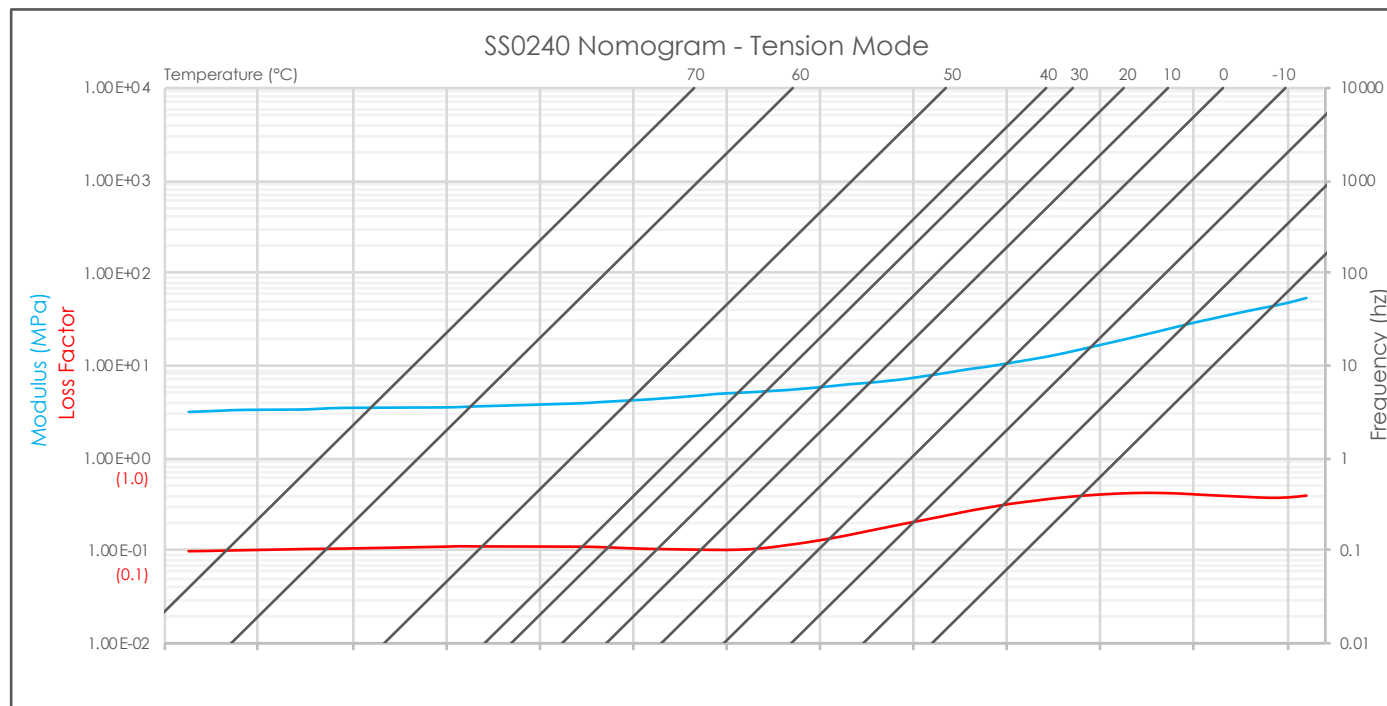


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## Typical Properties Continued



## 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.

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v.1.02 6.26.2024