

Technical Data Sheet- NK 55 Rubber Compound – R155OF1

1. Introduction

The NK 55 – R155OF1 – rubber compound is a natural rubber (latex)-based elastomer for industrial use. This compound is the most common raw material for vibration-damping rubber springs.

2. Product Description

- **Chemical composition:** Natural rubber (latex)
- **Form of delivery:** Sheet, endless strip
- **Color:** Black
- **Shelf life:** 5 years (vulcanized product)
- **Rubber-metal adhesion:** Good

3. Physical Properties

Property	Standard	Measured values
Hardness	ISO 48 Method M	55 ± 5 SH A
Density	ISO 2781	1.15 g/cm ³
Tensile strength	ISO 37	18 MPa
Elongation	ISO 37	550 %
Permanent deformation 22h / 100°C	ISO 815	45 % max.
Ageing, 70h / 100°C	ISO 188	
Hardness change		+1 SH A
Mass change		-x %

4. Heat Resistance

-40 – +80°C

5. Resistance to Chemicals

Chemical	Resistance
Alcohol	Weak
Mineral oils	Poor
Ethers	Good
Ketones	Excellent
Air	Good
Alkalis	Poor
Vegetable oils	Poor
Ozone resistance	Weak
Inorganic acids	Poor
Organic acids	Poor
Silicone oil	Poor
Fats	Poor

6. Advantages

Natural rubber is characterized by excellent elasticity, good tensile and tear strength, as well as outstanding abrasion resistance, combined with low permanent deformation. It also has good vibration-damping properties even at low temperatures.

7. Disadvantages

Natural rubber cannot be used in environments where it is exposed to chemicals, petroleum derivatives, including fuels. It is not recommended for outdoor applications where the main factors are direct sunlight, ozone, oxygen, or heat.

These data are, to the best of our knowledge, accurate as of the date indicated. The above information has been obtained from appropriate laboratory tests and is considered reliable, but we do not guarantee that the values can be reproduced in other laboratories.

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