

Datasheet  
**Stock No: 1752567**



## TECHNICAL DATA SHEET

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Compound: <b>ES70 / 11</b>		
EPDM rubber, 70 Shore A, solid, black, sulphur cured		

Pos.	Properties	Method	Unit	Requirement	Result
1.	Density (SG)			-	1.286
2.	Hardness (BUTTON)	IRHD	SH A	-	77.3
3.	Initial Tensile strength		MPa	-	8.09
4.	Initial Elongation at break		%	-	525.8
Air Aged 70 HRS @ 70° C					
5.	Hardness Change	IRHD		-	+2.0
6.	Tensile Change		%	-	-7.17
7.	Elongation Change		%	-	-15.1
Air Aged 70 HRS @ 100° C					
8.	Hardness Change	IRHD		-	+3.7
9.	Tensile Change		%	-	+11.0
10.	Elongation Change		%	-	-31.1
11.	Compression Set – 24 Hours @70°C		%	-	26.75
12.	Compression Set – 24 Hours @100°C		%	-	62.67

THE PHYSICAL PROPERTIES HAVE BEEN DETERMINED ON PRESS PLATES CURED 20 MINUTES AT 160°C



# Safety Data Sheet



Issued Date: August 2014

## Hazards identification

- Hazard description:  
The rubber preparation is not classified as unhealthy under normal conditions.
- Information concerning particular hazards for human and environment:  
The rubber preparation may cause sensitisation by skin contact. Fumes or vapours from rubber preparation at high temperatures may be toxic and/or irritation to eyes, skin, mucous membranes and respiratory tract. Molten rubber preparation (at high temperatures) may cause thermal burns. The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system:  
The classification is according to the latest editions of the EU-Lists.

## Composition/information on ingredients

- Chemical characterisation  
Description: Rubber Preparation containing polymer(s), organic and/or inorganic ingredients {fillers – (carbon black and mineral) , activators, anti-depredates, fillers, cross-linking agents, pigments)}, softeners.  
Based on Ethylene Propylene Diene, Nitrile and Chloroprene Rubber
- Dangerous components: Not known to contain any classified chemicals.
- Additional information: For the wording of the listed risk phrases, refer to section 16.

## First aid measures

- General information: No special measures are required.
- Inhalation: If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.
- Skin Contact: Wash with soap and water.
- Eye Contact: Flush eyes with plenty of water. Consult a physician if symptoms persist.
- Ingestion: Not expected to occur during normal use of product

## Fire-fighting measures.

- Suitable extinguishing agents:  
CO<sub>2</sub>, Water, Foam, Dry Chemical.
- Special hazards caused by the substance, its products of combustion or resulting gases:  
Decomposition products see section 10  
Do not inhale steam of combustion. Under certain fire conditions, traces of other toxic gases cannot be excluded.
- Protective equipment: Wear self-contained breathing apparatus. Wear full protective equipment.

## Accidental release measures

- Person-related safety precautions: Not required.
- Measures for environmental protection: No special measures required.
- Measures for cleaning/collecting: Not required
- Additional information:  
No dangerous substances are released.  
See Section 8 for information on personal protective equipment.



## Handling and storage

### Handling:

- Information for safe handling: Persons handling should wear protective equipment. Good housekeeping and hygienic practices should be observed.
- Information about fire - and explosion protection: Avoid heat, sparks and flame. Keep ignition sources away.
- Storage: Store in a cool & dry place in the original packaging and away from sunlight. Do not store near strong acids and oxidizers. Ensure good ventilation/exhaustion at the work place.
- Further information about storage conditions: Avoid storage close to highly combustible or flammable materials.

## Exposure control/personal protection

- Engineering Controls : no specific requirements in normal use.
- Personal Protective Equipment: when handling large quantities use suitable gloves.
- Protective Clothing: no specific requirements in normal use.

## Physical and chemical properties

- General Information
  - Form: Solid
  - Colour: Black
  - Odour: Characteristic
- Change in condition
  - Melting point/Melting range: Not determined.
  - Boiling point/Boiling range: Not determined
  - Flash point: Not determined.
  - Ignition temperature: Not applicable.
  - Self-igniting: Product is not self igniting.
  - Danger of explosion: Product does not present an explosion hazard.
  - Solubility in/miscibility water: Insoluble.
  - Solvent content: Not applicable
  - Solids content: 100

## Stability and reactivity

- Chemical Stability
  - Stable at normal temperature and storage condition.
- Conditions to avoid
  - Overheating
- Incompatibility with other materials
  - No specific information is available.
- Hazardous Decomposition Products
  - Fumes produced when heated to decomposition temperatures may contain carbon monoxide, carbon dioxide, hydrogen cyanide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons. Combustion products from rubber, like those of other natural and synthetic materials, must be considered toxic.



### **Toxicological information**

- Acute toxicity:
  - Primary irritant effect:
    - on the skin: May cause irritation effect.
    - on the eye: May cause irritation effect.
  - Sensitisation: Direct contact may cause skin sensitisation.
- Additional toxicological information:

The rubber product is not classified as toxic and does not affect health, and is not subject to classification according to the calculation method of the General EU classification guidelines for preparations as issued in the latest version.

### **Ecological information**

- Information about disposal (persistence and degradability): The rubber preparation is insoluble in water and cannot be easily broken down, and can therefore accumulate and thereby harm the environment.
- General notes: Avoid transfer into the environment.

### **Disposal considerations**

- Product:

Recommendation: The product is not classified as a hazardous waste according to EEC. Collect the waste for recycling. Combustion of waste requires special permission by authorities (96/67/EC).
- Un-cleaned packaging:

Recommendation: Disposal must be made according to official Local or EEC Regulations.

### **Transport information**

- This product is not regulated for transportation

### **Regulatory information**

- Labelling according to EU guidelines:
  - Observe the general safety regulations when handling chemicals.
  - The product has been classified and marked in accordance with EU Directives / respective national laws.

### **Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.