

## Rubber Sheeting

# Technical Specification

Natural Rubber, NR

*ID.*  
**R490**

*Colour*  
**Natural**

Basic Properties	Units	Standard	Values
Specific Gravity	g/cm <sup>3</sup>		1,05
Indentation Hardness	Shore A	ASTM D2240	45
International Hardness	IRHD	ASTM D1415	
Tensile Strength	MPa	ASTM D412	16,0
Elongation at Break	%	ASTM D412	600
Tear	N/mm	ASTM D624 Die C	25
Abrasion Resistance	mm <sup>3</sup>	DIN 53516 (10 N)	
Abrasion Resistance	mm <sup>3</sup>	DIN 53516 (5 N)	83
Working Temperatures	°C		-40 / 85

Heat Ageing in a Air Ventilated Oven	Cond. Temp.	Values
Standard ASTM D573	70 C 70 h	Hard. Inc. ShA 5 Tensile Inc. % -15 Elong. Inc. % -25

Compression Set	Cond. Temp.	Values
Standard ASTM D395 Method B	70 C 22 h	% Max 30

Liquid Resistance: ASTM D471	Cond. Temp.	Values
ASTM nº 5 Oil	C h	Volume Inc. %
IRM 903 Oil		Volume Inc. %

Ozone Resistance	Conditions	Values
Standard ASTM D1149	C h phr Ozone	Strain %

### Chemical Resistance

Ozone	Moderate
Diluted Acids and Oils	Excelent
Concentrated Acids and Oils	Good
Hydrocarbons	Non Recommended
Organic Solvents	Non Recommended



**TRELLEBORG**

Trelleborg Ibercaucho Alava, S.A.

San Vicente 23 - 01440 Izarra (Alava) - Spain

Tel: +34 945 437 000 Fax: +34 945 437 007

www.trelleborgibercaucho.com



## SAFETY DATASHEET

**R490M**            **NR-45**

### 1. CHEMICAL OR PREPARATION AND COMPANY IDENTIFICATION

**Chemical Description** Proprietary multiingredient compound.

**Supplier** Trelleborg Izarra, S.A.U. Carretera San Vicente 23. E-01440 Izarra, Araba. SPAIN

**Emergency Contact** Phone: +34 945 437 000

### 2. HAZARDS IDENTIFICATION

Due to that all raw materials are bound to the vulcanized product there are no known health hazards.

### 3. COMPOSITION/INFORMATION OF THE INGREDIENTS

#### Chemical description

Natural Rubber in a blend of fillers, plasticizers, curing agents and additives according to a proprietary recipe.

### 4. FIRST AID

**Synptoms and effects** They have not been reported.

#### First Aid

In General In case of doubt ask for medical care.

Eyes If irritation appears ask for medical assistance.

Skin If irritation appears ask for medical assistance.

Ingestion Proved symptomatic treatment. Seek medical assistance.

Inhalation Not applicable.

## 5. FIRE FIGHTING MEASURES

**Measures** Remove the exposed materials.

**Personal Protection** Breathing apparatus.

**Extinguishing Media** Water, water fog, foam, carbon dioxide or dry chemicals.

### **Hazardous decomposition / Combustion products**

Monoxide and carbon dioxide, nitrogen and sulfur oxides and incomplete combustion products. The released smoke is usually dense and black.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** No special precautions.

**Environmental Precautions** No special precautions.

**Cleaning Methods** No special precautions. Load the released material in a clean container to be reused, (preferible), or disposed as indicated in the 13th paragraph.

## 7. HANDLING AND STORAGE

**Handling** No special precautions. Comply with personal hygiene measures.

**Fire prevention** Avoid elevated temperatures, fire ignition sources and electrostatic fields.

**Storage** Store in a cool, dry, well ventilated place. Avoid the accumulation of electrostatic charges.  
Avoid the direct sunlight because it may deteriorate the product.

## 8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

**Technical Controls** No special precautions.

**Exposure Limits** Not applicable.

### **Personal Protection**

Breathing No special precautions.

Hands No special precautions.

Eyes No special precautions. During handling safety glasses are recommended.

Skin and body No special precautions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Aspect** Solid Rubber.

**Colour** Natural

**Melting Point / degC** Not applicable.

**Boiling Point / degC** Not applicable.

**pH** Not applicable.

**Flash Point / degC** Not measured. (>200 Celsius degrees).

**Density / g/cm<sup>3</sup>** 1,05

**Water Solubility** Insoluble.

**Solubility in other liquids** Consult our Specification Datasheet.

**Working Temperature** -40 to 85°C

## SAFETY DATASHEET

**R490M**            **NR-45**

### 10. STABILITY AND REACTIVITY

**Stability** Stable product. See working temperature range.

**Conditions to avoid** Ignition Sources and electrostatic fields.

**Products to avoid** None. However, Certain chemicals may deteriorate the material. See our Specification Datasheet.

#### **Hazardous decomposition and combustion products**

Monoxide and carbon dioxide, nitrogen and sulfur oxides and incomplete combustion products. The released smoke is usually dense and black.

### 11. TOXICOLOGICAL INFORMATION

No special health hazards.

### 12. ECOLOGICAL INFORMATION

**General Data** Stable product. See working temperature range.

**Biodegradability** The material is not biodegradable.

### 13. DISPOSAL CONSIDERATIONS

**Product** According to the local regulations applied in each country.

**Recipients** According to the local regulations applied in each country.

### 14. TRANSPORT INFORMATION

Is not a dangerous material.

### 15. REGULATORY INFORMATION

Is not classified as dangerous chemical or compound. Labelling not required.

### 16. OTHER INFORMATIONS

The included information, is according to our present knowledge, correct and accurate and is given in good faith but without guarantee. The final safety of this product is responsibility of the final user or local supplier. It is necessary a good handling according to a good working procedure and only for the application that has been prepared and recommended. See our Specification Datasheet. In case of doubt do not hesitate to ask.