

Buna[®] SE 1793

Product Description

Buna[®] SE 1793 is a butadiene-styrene copolymer, produced by cold emulsion polymerization, using fatty and rosin soaps as emulsifiers. The elastomer is extended in oil with a PCA (Polycyclic Aromatic Hydrocarbons) content less than 3,0% and PAHs (Individual Polycyclic Aromatic Hydrocarbons) content less than 10 ppm which is compliant with the European directive 2005/69/EC.

The monomers are randomly distributed in the polymer structure, while the butadiene fraction is found in its major part in the trans configuration with small fractions of cis and vinyl configurations. CAS No.: 9003-55-8.

The rubber is protected by a staining stabiliser system.

Production plant: Duque de Caxias -RJ - Brazil

Supply Form

Dark rubber bales wrapped in polyethylene foil.

Raw Material Properties

| Property | Nominal Value | Unit | Test Method |
|------------------|---------------|---------|-------------|
| Volatile Matter | max. 0.50 | % by wt | ASTM D 5668 |
| Mooney Viscosity | 51 | MU | ASTM D 1646 |
| Free soap | max. 0.5 | % by wt | ASTM D 5774 |
| Organic acid | 5.1 | % by wt | ASTM D 5774 |
| Bound styrene | 23.5 | % by wt | ASTM D 5775 |
| Oil content | 27.2 | % by wt | ASTM D 5774 |

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Other Product Features

| Property | Typical Value | | | | | | |
|--------------------------------|---|-------------------|------|-------------------|----------------------|----------|---------|
| Solubility | Buna [®] SE 1793 rubber is soluble in aliphatic hydrocarbons, styrene, toluene, tetrahydrofuran, cyclohexane, methylene chloride and 1,1,1-trichloro-ethane, and is insoluble in alcohols and water. | | | | | | |
| typical values | <table border="0"> <tr> <td>density</td> <td>0,94</td> <td>g/cm³</td> </tr> <tr> <td>ash content</td> <td>max. 0,5</td> <td>% by wt</td> </tr> </table> | density | 0,94 | g/cm ³ | ash content | max. 0,5 | % by wt |
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| Storage Life/Conditions | Buna [®] SE 1793 should be stored in its original packaging in a cool, dry place at temperatures below 40°C. Exposure to light must be avoided and also other heat sources. Under suitable conditions the product is stable for 12 months. | | | | | | |
| Packaging | <table border="0"> <tr> <td>Bale weight</td> <td>35</td> <td>kg</td> </tr> <tr> <td>Nominal crate weight</td> <td>~1260</td> <td>kg</td> </tr> </table> | Bale weight | 35 | kg | Nominal crate weight | ~1260 | kg |
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| Nominal crate weight | ~1260 | kg | | | | | |
| Marking | Grade / Lot number / Crate number / Net weight | | | | | | |
| Use | Buna [®] SE 1793 is used where there is a need for resistance to wear and tear, resistance to cracking and excellent processing conditions. It processes easily in extrusion and calendaring, due to its oil content. It is used in tires, retread, conveyor belts, piping, hoses, tubings, carpets, moulded products in general and shoe soles. | | | | | | |
| Product Safety | Literature on the health and safety aspects of this product has been published. Before working with this product, personnel must be familiarised with its hazards, proper use, and handling. The available information is summarised in the Safety Data Sheet. | | | | | | |

These raw material properties are typical and, unless specifically indicated otherwise, are not to be considered as delivery specification.

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Issue number: Buna SE 1793 / Date of issue: July 28, 2017 / Information current as of date of issue. Please contact your ARLANXEO representative to determine if this publication has been revised.