SYNTION® 1815
Styrene-Butadiene Rubber - SSBR

CHARACTERISTICS
SYNTION® 1815 is a specialty grade of low-vinyl, solution styrene-butadiene rubber, dry type. It is produced by a technology of anionic copolymerization, based on lithium catalyst, then coupled by a silicon compound, for better processability. Contains 18.5% of chemically bonded styrene and is stabilized with a non-staining antioxidant.

GENERAL REQUIREMENTS
Bales of synthetic rubber SYNTION® 1815 should be close to dimensions 720x360x180 mm. Presence of any mechanical impurities is not permitted.

TECHNICAL PARAMETERS

**RUBBER TECHNICAL PARAMETERS**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Units</th>
<th>Values</th>
<th>Test methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mooney viscosity ML 1+4 (100°C) – unmassed</td>
<td>°ML</td>
<td>43 ÷ 53</td>
<td>ASTM D1646</td>
</tr>
<tr>
<td>Volatile matter</td>
<td>% wt.</td>
<td>max. 0,80</td>
<td>ASTM D5668</td>
</tr>
<tr>
<td>Bound styrene</td>
<td>% wt.</td>
<td>17,0 ÷ 20,0</td>
<td>Own method</td>
</tr>
<tr>
<td>1,2-butadiene structure (vinyl) content</td>
<td>% wt.</td>
<td>12,0 ÷ 18,0</td>
<td>Own method</td>
</tr>
<tr>
<td>Organic acids content</td>
<td>% wt.</td>
<td>0,5 ÷ 1,3</td>
<td>ASTM D5774</td>
</tr>
<tr>
<td>Glass transition temperature (Tg), typical</td>
<td>°C</td>
<td>-75</td>
<td>Own method</td>
</tr>
</tbody>
</table>

Guaranteed values of relevant technical parameters of the product are each time agreed upon in the sales contract.

To each shipping lot/delivery a quality certificate including data on properties of the product determined during release control is issued. Scope of the testing which is covered by the quality certificate is each time agreed upon in the sales contract.

PACKAGING
SYNTION® 1815 is baled to form of rubber blocks weighing 33 kg (± 1,0 kg) and measuring 720 x 360 x 180 mm. Each block is wrapped in PE film, which is assigned a specific colour relating to the respective rubber grade.

The blocks are laid into returnable metal boxes. Net weight of each complete box is about 1200 kg.

Alternatively it is possible supply product in wooden boxes, net weight of each complete box is about 1000 kg.

In case of wooden 1000 kg boxes storage of the product in two (2) or more layers (stacking) is not permitted.

A self-adhesive label is fixed to each box and displays the following data: name of the producer, name of the product and designation of type, batch number, number of the palette, gross and net weight, date of manufacture.

TRANSPORTATION
SYNTION® 1815 is typically transported in covered road trucks, in covered railway carriages and in standard shipping containers.

SYNTION® 1815 is not a dangerous material to transport.
STORAGE
Product should be stored in sheltered conditions away from direct sunlight, at least 2 meters away from radiant heating elements and the temperature should not exceed 30°C. The guaranteed shelf life for SYNTION® under the above-mentioned conditions is eighteen (18) months from the date of production.

APPLICATION
SYNTION® 1815 is appropriate for silica/carbon black rubber compounds used in the production of low rolling resistance and low wear, mainly solid tyres as well as various technical rubber articles, as floorings or shoe soles. Due to non-staining antioxidant, the compounds can have bright colours. SYNTION® 1815 doesn’t contain any substances, excluding it from production of rubber articles coming into contact with foods or drinking water.