

Hyrub P 10

Peptized Natural Rubber

Description

Hyrub P 10 is produced from high quality field coagulum according to the specifications of the Golden Hope Plantations Group. This ensures that only fresh and unoxidized cup lumps are processed. Due to this selection, it is possible to keep the dirt content far below the limit.

By the addition of only 0.1-0.15% peptizer, the Mooney Viscosity is lowered and with the addition of hydroxylamine it is stabilized at the respective level. During this process the rubber is also undergoing a homogenization.

End Use

Because of its high performance, Hyrub P 10 is used for special for special rubber products like rubber to metal compounds, vibration elements, retreading compounds, and special mechanical goods.

Features

- Excellent physical properties
- Low molecular weight distribution and low gel content
- Can be used directly in solution applications without initial premastication and still gives excellent solution properties.

Packing

- Bale weight: 35 kg
- Bale wrapper LDPE (thickness of 0.03-0.04 mm) and special packaging in removable film (0.1 mm)
- One crate containing 36 bales has a total net weight of 1260 kg
- One 20' container holds 16 crates, with a total weight of 20.160 kg

Shrink-wrapping is only possible for the upper eight crates in a container because of the deformation of the shrink-pack under pressure due to the low Mooney Viscosity of the rubber.

Technical Specifications

| Property | Unit | Test Method |
|----------------------------|-----------------|-------------|
| Mooney Viscosity* | ML ₁ | 55 +/- 5 |
| Dirt Content | % | 0.08 max |
| Ash Content | % | 0.70 max |
| Volatile Matter | % | 0.80 max |
| Nitrogen Content | % | 0.60 max |
| Plasticity Retention Index | | ** |
| Initial Wallace Plasticity | | ** |

*ML 1+4 (100°C)

**PRI and IWP tests would not be relevant because of the plasticizing effects of the peptizer to the test piece. The raw rubber — before adding the peptizer — would fulfill the PRI and IWP limits specified for TSR 10, or better.

Note: The technical data listed in this publication are typical values. Therefore, there may be a slight differences between the elements of a supplied product and the data.

Special Advantages

Hyrub P 10 shows improved processing characteristics to conventional rubbers because the time and energy required for mixing is great reduced. Premastication can be eliminated and the number of batches per hour is increased, especially when mixing on open mills or smaller internal mixers. Also the expensive energy peaks (when feeding rubber bales into the mixer) can be minimized by using low Mooney Viscosity Hyrub P 10.

As the peptizer is added during the production of natural rubber, one needs much less peptizer compared to the addition during compounding on open mills or internal mixers to reach the same viscosity/plasticity.

By the proper dosing of the peptizer it is possible to produce a lower Mooney Viscosity within a very narrow range, mostly between 50 to 55. Therefore P 10 has a great advantage over TSR 10 CV and untreated TSR 10.

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