

DP-Poly CV

DeProteinised Polymer - Controlled Viscosity

Description

DP-Poly CV is a highly purified form of natural rubber from which most of the **proteins** and **ash** have been removed.

The polymer is produced under very closely defined and controlled conditions and contains c.a. 96% hydrocarbon compared to about 93% for conventional natural rubber grades.

These polymers, (including DP-Poly S), are light colored and have very low protein, ash, dirt and volatile matter. They are free from nitrosamines, nitrosatable amines and have very low antigen content. The removal of these materials confers special attributes to the material which enhance its value in certain specialized applications.

End Use

Due to its unique properties, DP-Poly CV can be used in a wide range of applications.

Engineering: Seals, bearings, joint rings, hydromounts, building mounts, anti-vibration parts, shock absorbers.

Low Water Absorption: Electrical insulation, sluice gate and marine rubber parts, pump starters, tank linings.

Low Protein / Low Antigen Content: Medical Healthcare and pharmaceutical applications such as adhesives, baby diapers, teats, dummies, garments, syringes, stoppers etc.

Low Dirt / Light Colour: Moulded and extruded clean products such as tubings, hoses,

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Raw Rubber: Properties

Property	Unit	Typical Values
Dirt retained on 44 u aperture	% wt	max 0.01
Ash Content	% wt	max 0.15
Nitrogen Content	% wt	max 0.12
Volatile Content	% wt	max 0.30
Mooney Viscosity*	ML ₁	60 - 70
Color (Lovibond)	max	6

* ML 1+4 (100°C)

Packaging

Net Weight (per pallet)	1,200 kg
Number of Bales (per pallet)	36
Net Weight (per bale)	33.3 +/- 0.5 kg
Dimension (per bale)	330 x 670 x 170 mm
Bale Wrapper (foil)	Low Density PE-Film
Bale Thickness	0.03 - 0.05 mm
Bale Density	0.92 g/cm ³
Bale Melt Point	109°C (Vicat)

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.

Product Features

- Very low protein content
- Low volatile content and chemical reactivity
- Transparent vulcanisates
- Light color
- Very low dirt and ash contents
- Low water absorption / Low volume swell
- Viscosity stabilization feature
- Free from nitrosamines and malodor
- Superior resilience gives lower rates of creep and stress relaxation than ordinary natural rubbers, especially in soluble EV system
- Insensitivity to adventitious and absorbed water results in greater consistency in cure behavior and vulcanized modulus under conditions of variable humidity