

POLYVEST® EP 130 S

Experimental Product (EP)

NON-FUNCTIONALIZED LIQUID POLYBUTADIENE**GENERAL DESCRIPTION**

POLYVEST® EP 130 S is a stereospecific, low viscous and unsaponifiable liquid polybutadiene with a high content of 1,4-cis double bonds having the following composition:

- 1,4-cis double bonds approx. 77%
- 1,4-trans double bonds approx. 22%
- 1,2-vinyl double bonds approx. 1%

SPECIFICATION

Property	Value	Unit	Test Method
Viscosity at 20°C	2,700 - 3,300	mPa s	DIN EN ISO 3219
Acid Number	≤ 0,3	mg KOH/g	DIN EN ISO 2114
Peroxide Number	≤ 10	mval/kg	DGF-method: C-VI-6a (84)

TYPICAL DATA

Property	Value	Unit	Test Method
Mean Molar Mass	approx. 4,600	g/mol	GPC (polystyrene standard)
Iodine Number	420 – 480	g Iod/100 g	DIN 53 241
Density at 20°C	0.90 – 0.92	g/cm ³	DIN ISO 2811-1
Gardner Color	≤ 4		DIN EN ISO 4630
Flash Point	approx. 200	°C	DIN EN ISO 2719
Ignition Temperature	approx. 350	°C	DIN 51 794
Pour Point	approx. – 50	°C	DIN ISO 3016

SUPPLY FORM

Viscous liquid

PACKAGING AND TRANSPORT

- steel drums (content 190kgs); minimum order quantity 4 drums on pallet
- delivery in IBC (content 900kgs) on request

GENERAL USE AND APPLICATIONS

Due to its high content of 1,4-cis double bonds the apolar, hydrophobic hydrocarbon resin POLYVEST® EP 130 S is a highly reactive binder featuring the following characteristics:

- high chemical resistance
- high water resistance
- high electrical insulation properties
- high cold resistance
- good solubility in aliphatics, aromatics and ethers
- good compatibility with hydrocarbon resins, rosin resins and zinc resonates

In this form POLYVEST® EP 130 S is used in the following areas of application:

- rubber compounds

We are pleased to send guideline formulations.

STORAGE

POLYVEST® EP 130 S is stable for at least 24 months with exclusion from air, light and moisture at storage temperatures below 25°C.

SAFETY AND HANDLING

POLYVEST® EP 130 S reacts with atmospheric oxygen to form peroxides and cross-linking and is therefore packed and delivered under a blanket of inert gas (nitrogen). During handling care has to be taken to exclude atmospheric oxygen as much as possible from the product. Opened containers should be blanketed with inert gas again and closed tightly.

We are pleased to send our current Safety Data Sheet.

Marl, October 12, 2018; This data sheet replaces all former issues.

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Disclaimer

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