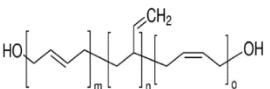


# TECHNICAL SPECIFICATION



## HYDROXYL TERMINATED POLYBUTADIENE (HTPB)

### 1. Basic Information

Product Name	Hydroxyl Terminated Polybutadiene (HTPB)
Structural Formula	 The chemical structure shows a polymer chain with a repeating unit. The unit consists of a butadiene-like structure with a double bond between the second and third carbons. The first carbon is bonded to a hydroxyl group (OH) and a methyl group. The third carbon is bonded to a methyl group and a hydroxyl group. The fourth carbon is bonded to a methyl group and a hydroxyl group. The polymer chain is represented by brackets with subscripts m, n, and o indicating the number of repeating units.
CAS No.	69102-90-5
EINECS	614-925-3

### 2. Typical Physical and Chemical Properties

Items	Specification
Viscosity, mPa.s @ 23°C	8000
Hydroxyl Number, mg KOH/g	47.1
Hydroxyl Functionality	2.4 – 2.6
Molecular Weight, Mn	2800
Polydispersity, Mw/Mn	2.5
Specific Gravity @ 23°C	0.901
Iodine Number, g/100g	400
Glass transition Temp. (Tg), °C	-75
Solubility, g/100 ml of solvent @ 25°C	
Mineral Spirits	>50
Toluene	>50
Chloroform	>50
Methyl Ethyl Ketone	>50
Ethyl acetate	>50
Acetone (Cloudy Solution)	<10
Hexane	>50
Aromatic 100	>50
Isopropanol (Cloudy Solution)	<10

### 3. Additional Information

Packaging	POLY BD R45V can be packed as follows: -20 tons bulk -1000 kg one-way containers
Shelf life stability	Providing adequate storage conditions, POLY BD R45V can be kept at least one year from the date of purchase if the product is stored in the original, unopened container.