

## Technical Data Sheet

# Poly bd<sup>®</sup> R45 HTLO

## Hydroxyl Terminated Polybutadiene Resin

### DESCRIPTION:

Poly bd<sup>®</sup> R45 HTLO resin is a low molecular weight, liquid hydroxyl terminated polymer of butadiene. Poly bd<sup>®</sup> resins have primary, predominantly allylic hydroxy groups that exhibit high reactivity in chemical reactions for the preparation of derivatives.

### PRODUCT HIGHLIGHTS / PERFORMANCE PROPERTIES:

- Electrical insulative properties
- Miscibility with asphalt
- High solids loading
- Hydrolytically stable
- Good water resistance
- Low moisture permeability
- Resistance to aqueous acids and bases
- Low temperature flexibility
- Excellent adhesion to a variety of substrates

### SUGGESTED APPLICATIONS:

- Adhesives and sealants
- Coatings
- Electrical potting and encapsulation
- Polymer modification
- Polyurethanes
- Binders

### TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Property	Test Method	Value	Unit
Molecular Weight (Mn)	GPC	2,800	g/mol
1,2 Vinyl	Proton NMR/ IR	20	wt. %
Viscosity @ 30°C	ATO-8028	5,000	cps
Tg	DSC	-75	°C
Specific Gravity @ 23°C	ATO-8026	0.90	-
-OH (Groups/Chain)	Titration/VPO	2.5	-

**Regulatory Notice:** This product is regulated by the U.S. Department of Commerce, Export Administration Regulations, under Export Control Classification Number (ECCN) 1C111 and may not be exported, or re-exported, without a license from that agency. Diversion contrary to U.S. law is prohibited.

'CRAY VALLEY' is a brand name only. The Business Unit name 'TOTAL CRAY VALLEY' or the brand name 'CRAY VALLEY' may be used for promotion and/or sale of CRAY VALLEY products by Total Petrochemicals & Refining USA Inc. ("TPRI") or by Cray Valley SA, Cray Valley HSC Asia Limited, Cray Valley (Guangzhou) Chemical Co., Ltd, Cray Valley Italia S.r.l and Cray Valley Czech S.r.o. ("Cray Valley Legal Entities"). TPRI and each of the Cray Valley Legal Entities are independent entities (each are individually referred to as "SELLER"). The information contained in this document is believed to be true and accurate on the date issued. Seller reserves the right to make any changes to the product according to technological progress or further developments. **FINAL DETERMINATION OF SUITABILITY AND USE OF ANY PRODUCT FOR PROCESSING, USE, SALE, MARKETING, OR OTHER APPLICATION(S) IS THE SOLE RESPONSIBILITY OF THE BUYER/USER. IN NO EVENT WILL ANY SELLER ASSUME ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN OR RELIANCE THERETO. SELLER MAKES NO WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, REGARDING THE PRODUCT OR THE INFORMATION CONTAINED IN THIS DOCUMENT, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO SELLER. SELLER MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF THE PRODUCT(S) FOR PROCESSING OR FOR BUYER'S/USER'S INTENDED USE, PROCESSING, APPLICATION, SALE, OR MARKETING. SELLER MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, OF ANY TECHNICAL SUPPORT, ANY PROPRIETARY INFORMATION PROVIDED, OR THE RESULTS THAT MIGHT BE OBTAINED FROM TECHNICAL SUPPORT. ALTERATION OF THIS DOCUMENT IS STRICTLY PROHIBITED.** For further information please contact your local sales representative or visit [www.crayvalley.com](http://www.crayvalley.com)