

Typical *Poly-L*® Polyol Properties**

Poly-L® polyether polyols are high quality propylene oxide based multi-functional polyols that contain very low levels of terminal unsaturation.

Conventional propylene oxide based polyether polyols are prepared with KOH catalysis. This manufacturing method produces terminally unsaturated end groups forming polyols that contain monoalcohols. These monofunctional or monol chains act as chain terminators in polyurethane formation producing polyurethanes having low molecular weight and inferior physical properties.

In contrast *Poly-L* polyols are manufactured using an organometallic catalyst. With this method, polyols with very low levels of terminal unsaturation and monol content are produced. Consequently, polyurethanes with higher molecular weight can be made from *Poly-L* polyols. These *Poly-L* based polyurethanes have significant advantages in performance. *Poly-L* 220-28, 220-56, 255-28, and 330-26 polyols typical properties are listed in table 1.

Table 1
Typical Physical Properties

Poly- L® Polyols	OH Number Avg. (mg KOH/g)	Unsaturation meq/g	pH 10/6 IPA/H ₂ O	%Water Max.	Color Max (APHA)	Viscosity @ 25° C (cps)
220-28	28	0.01	6.0	0.02	50	1000
220-56	56	0.009	6.0	0.02	50	350
255-28	28	0.009	6.0	0.02	70	1050
330-26	26	0.017	5.4	0.03	50	1400

**Not to be construed as product specification



Performance Chemicals Specialty Polyols

For More Information Technical Service

Technical Service is available to facilitate further use of Arch urethane chemicals. If you have a specific question or need further information, please write or call Urethane Technical Service, Arch Chemicals Plant, P.O. Box 547, 2450 Highway 933, Brandenburg, KY 40108-0547, (800) 370-9674.

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Written inquiries may be sent to:

Arch Chemicals, Inc.
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Norwalk, CT 06856
Attention: Sales Director Performance Urethanes

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Sales Headquarters

Norwalk, CT 06856 – 501 Merritt 7, (203) 229-2900

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