

Poly-L[®] 255-28

Poly-L[®] 255-28 is a high percentage ethylene oxide-capped diol. Produced with improved technologies which yields low terminal unsaturation and offers relative high reactivity in its class. Low viscosity suitable for multiple processes, include RIM process for optimal efficiency. Finished Poly-L[®] 255-28 has ~80% primary hydroxyls which yields excellent physical properties with suitable isocyanates.

Features:

- Fast reactivity
- Low viscosity
- Suitable multiple types of processes
- Low hydroxyl for volume-critical formulations

Applications:

- Urethanes
- Castings
- Adhesives
- Filled elastomers
- Sealants
- Microcellular
- Coating

Benefits:

Poly-L[®] 255-28 diol has a nominal molecular weight of ~4,000. It is a colorless liquid provides relative high transparency; slightly acidic and non-volatile at ambient temperatures; low viscosity for easy gravity charging; high flash point >450 F° (232C°).

Fig.1 Poly-L 255-28 Viscosity vs. Tempt.

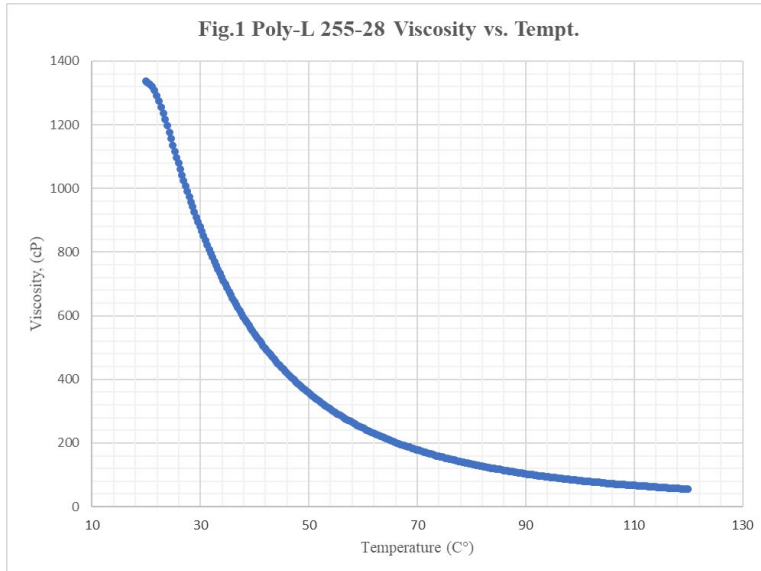
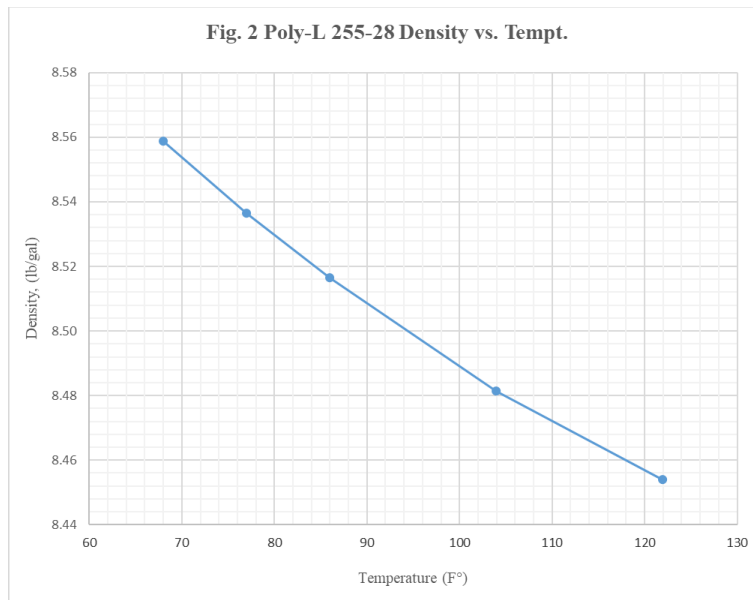


Fig. 2 Poly-L 255-28 Density vs. Tempt.



Typical Properties

Hydroxyl No. (mg KOH/g)	26-30
Primary Hydroxyl, %	80
Viscosity 25°C, cP	1200
Density 25°C, g/mL	1.02-1.035
Avg. Mol Wt. (g/mol.)	4000
Appearance	Colorless to pale yellow
Water (% wt), Max	0.02
Acid No, (mg KOH/g), Max	0.05
Unsaturation (meq/g)	0.015
Color (APHA)	70
pH in IPA/H ₂ O	5.5 – 6.5
Flash Point (C°) Open Cup	210-254
Functionality	2

Note: The properties reported above are typical physical properties. Monument Chemical in no way guarantees that the product from any particular lot will conform exactly to the given values.

Health and safety information

Under current U.S. OSHA's Hazardous Communication program Poly-L® 255-28 is not considered hazardous.

Observe good industrial hygiene practices and use appropriate Personal Protective Equipment.

For full safety information please refer to the Safety Data Sheet.

Storage and Handling

Poly-L® 255-28 presents no unusual problems for ordinary handling and storage. Consideration must be given to some of its properties when high product purity must be maintained.

Poly-L® 255-28 is hygroscopic, the product can absorb atmospheric moisture up to several percentage. It

should be stored in original drums or bulk tanks if possible. Product needs to be blanketed with dry nitrogen gas after each usage.

Provided proper storage and handling precautions are taken, Poly-L® 255-28 manufactured and delivered by Monument Chemical is stable for at least 24 months from the date of manufacture. Poly-L® 255-28 that is subsequently repackaged, handled and/or delivered by third parties may have a different shelf life and may require third party shelf life studies. Product past the expiration date should be evaluated to confirm that all specifications are within their limits before use.

Additional Information

To learn more about Monument Chemical and the products and services we offer please visit our website at www.monumentchemical.com.

Effective Date: 01/23/2023

Revision: 1

Disclaimers

Please refer to the Safety Data Sheet (SDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an SDS, email SDS@monumentchemical.com. Before using or handling this product, the SDS should be thoroughly reviewed.

Monument Chemical believes the information in this specific product Technical Data Sheet (TDS) is accurate, but makes no representations as to the sufficiency or completeness of the product or information in this TDS and makes no commitment to correct or bring up-to-date any such information and makes no commitment related to the use of the product in combination with other chemicals or as part of any other chemical processes. MONUMENT CHEMICAL MAKES NO WARRANTY TO THE USER OR RECIPIENT OF ANY PRODUCT FROM MONUMENT CHEMICAL, OR WITH RESPECT TO THE INFORMATION PROVIDED WITH THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE, OR OF NON-

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