

## *Poly-G*<sup>®</sup> 55-173

*Poly-G*<sup>®</sup> \* 55-173 polyol is an ethylene oxide-capped diol that produces urethanes with physical properties superior to those achieved with a conventional polyol of equivalent molecular weight.

*Poly-G* 55-173 polyol has a nominal molecular weight of 650. The ethylene oxide cap yields a primary hydroxyl content of approximately 70%, which enhances reactivity. Typical applications are elastomers and coatings. It is a stable, practically colorless liquid that is neither volatile nor corrosive, with a low pour point and high flash point.<sup>1</sup>

Typical physical properties are presented in Table 1. The effects of temperature on the viscosity and specific gravity are shown in Figures 1 and 2, respectively.

**Table 1**  
**Typical Physical Properties**

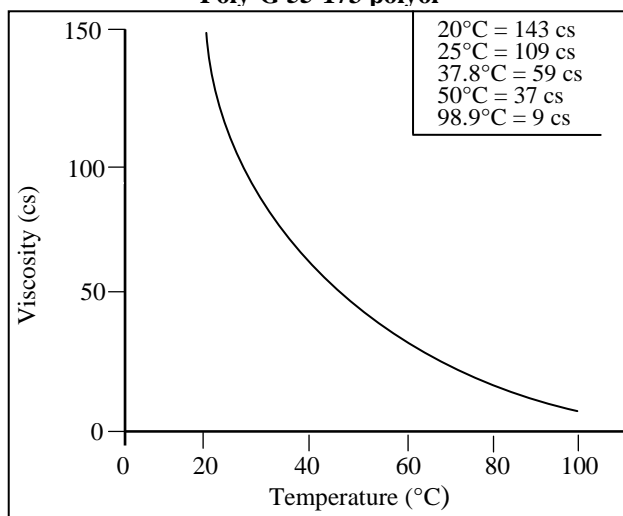
Hydroxyl No. (mgKOH/g)	173
Water (% by weight), max	0.02
Acid No. (mgKOH/g), max	0.05
Color (APHA)	40
pH in 10/6 Isopropanol/Water	6.5
Viscosity @ 25°C (cs)	110
Specific Gravity @ 25°C/25°C	1.058
Flash Point <sup>1</sup> , COC	
(°C)	243
(°F)	469
Density @ 25°C (lb/gal)	8.86

### Storage and Handling

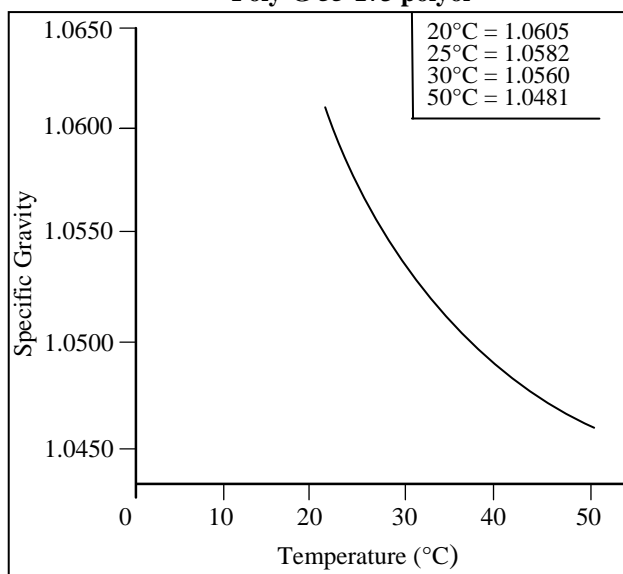
*Poly-G* 55-173 polyol presents no unusual problems for ordinary handling and storage. Consideration must be given to some of its properties when high product purity must be maintained.

<sup>1</sup>The flammability properties of this material, or any other material, are not intended to reflect the fire hazards presented by any resultant cellular or foamed plastic product.

**Figure 1**  
**Viscosity vs. Temperature**  
**Poly-G 55-173 polyol**



**Figure 2**  
**Specific Gravity vs. Temperature**  
**Poly-G 55-173 polyol**



*Poly-G 55-173* polyol is hygroscopic. While water content at the time of shipment is extremely low, the product can absorb atmospheric moisture in amounts up to several percent of its weight

Thus, storage should be in drums or bulk tanks under a blanket of dry nitrogen or -40° dew point dry air. Calcium chloride or silica gel drying systems should be installed on all vents to prevent atmospheric moisture from entering the tank. See Monument Chemical Data Sheet "Storage and Handling of *Poly-G* Polyols" for recommendations of construction materials and heating systems

## **For More Information**

### **Technical Service**

Technical service is available to facilitate further use of Monument Chemical products. If you have a specific question or need further information, please write or call Monument Chemical, Customer Service, 2450 Olin Road, Brandenburg, KY 40108; (800) 636-3786, or fax: (270) 422-6456.

Or visit our web site at: [www.monumentchemical.com](http://www.monumentchemical.com)

### **How To Order**

To place orders for delivery in the U.S. or Canada and to get fast answers on order status or product availabilities, call our toll-free number: (800) 636-3786.

For written inquiries about orders, and to place confirmations, send to Monument Chemical, Customer Service, 2450 Olin Road, Brandenburg, KY 40108.

Please refer to the Material Safety Data Sheet (MSDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an MSDS, call Monument Chemical at (800) 636-3786. Before using or handling this product, the MSDS should be thoroughly reviewed.

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