



Technical Data Sheet

VORANOL™ 360 Polyether Polyol

Description

VORANOL™ 360 Polyether Polyol is a 4.5 functional, low viscosity, sucrose/glycerine-initiated polyether polyol designed to produce both high- and low-density rigid polyurethane foams. It can be used alone, or in combination with other polyols or fire-retardant agents, to achieve desired properties.

This polyol is an excellent option with blowing agents as well as is very compatible with polymeric isocyanates, which aids in processing high density foams.

The foaming reaction of systems based on VORANOL™ 360 Polyol is affected less by high humidity conditions than many other polyols. This yields uniform foam properties and improved adhesion to substrates.

VORANOL™ 360 Polyol is ideal for high-density foams such as furniture and decoration; and low-density foams such as spray polyurethane foams, insulated panels, rail boxcars, portable coolers, pour-in-place insulation. It is also well suited in polyol blends.

Typical Component Properties

Property	Unit	Value	Test Method ¹
Hydroxyl Number	mg/g	360	ASTM D4274
Functionality		4.5	
Initiator		Sucrose/glycerine	
Viscosity, 77°F (25°C) 210°F (99°C)	cSt	3600 850–1200	ASTM D445
Water, Max.	wt %	0.1	ASTM D4672
Basicity	meq/g	0.05	Dow Method
Density, 77°F 25°C	lbs/gal gm/cc	9.05 1.08	ASTM D1475
Flash Point (PMCC)	°F °C	325 163	
Specific Gravity		1.08	
Colour, Max. (Gardner)		5	ASTM D4890

1. ASTM: American Society for Testing and Materials

These are typical values and should not be construed as specifications.

Handling and Storage

	Unit	Limits
Storage temperature	°C	15–35
	°F	59–95
Storage stability / Shelf life	months	24

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