



Technical Data Sheet

VORANOL™ 490 Polyether Polyol

Description

VORANOL™ 490 Polyether Polyol is a 4.3 functional, sucrose/glycerine-initiated polyether polyol designed to produce rigid polyurethane foam. It is suitable for both high- and low-density foams. VORANOL™ 490 Polyol can be used alone, or in combination with other polyols or fire-retardant agents, to achieve various degrees of crosslinking. This polyol is very compatible with many different types of isocyanates. VORANOL™ 490 Polyol results in foams with excellent K-factors-to-flowability relationships. Typical applications include spray polyurethane foams, appliance insulation, insulated panels, refrigerated transportation vehicles, portable coolers, pour-in-place insulation, and marine floatation. It is also well suited in polyol blends.

Typical Component Properties

Property	Unit	Value	Test Method ¹
Hydroxyl Number	mg/g	490	ASTM D4274
Functionality		4.3	
Initiator		Sucrose/glycerine	
Viscosity, 77°F (25°C)	cSt	5500	ASTM D445
210°F (99°C)		42	
Water, max.	wt %	0.1	ASTM D4672
Density	lbs/gal	9.26	ASTM D1475
	gm/cc 25°C	1.109	
Flash Point (PMCC)	°F	380	
	°C	193	
Specific Gravity		1.11	

1. ASTM: American Society for Testing and Materials

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

Handling and Storage

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

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Safety Considerations

Material Safety Data (MSD) sheets are available from The Dow Chemical Company. MSD sheets are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. MSD sheets are updated regularly, therefore, please request and review the most current MSD sheet before handling or using any product. These are available from the nearest Dow sales office.

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