



Technical Data Sheet

VORANOL™ 470X Mannich Polyether Polyol

Description

VORANOL™ 470X Polyol is a four functional Mannich polyol for spray polyurethane foam application or applications that requires a fast-curing profile.

Typical Component Properties

Properties	Units	Values	Test Method ¹
Hydroxyl Number	mg/g	450–490	ASTM D4274
Functionality		4	
Initiator		Sucrose/glycerine	
Viscosity, 77°F (25°C)	cSt	7000–13000	ASTM D4878
Water, max.	wt%	0.1	ASTM D4672
Basicity, Total	meq/g	2.8–3.1	ASTM D6979
Density 77°F	lbs/gal	8.9	ASTM D1475
25°C	gm/cc	1.06	
Flash Point (PMCC)	°F	500	
	°C	260	
Specific Gravity		1.06	

1. ASTM: American Society for Testing and Materials

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

Handling and Storage

Properties	Units	Limits
Storage temperature	°C	25
	°F	77
Storage stability / shelf life	months	24

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