Dow Chemical Technical Bulletin
Spray Polyurethane Foam

This material is a plural-component, chemical-reactive system, intended for use by thoroughly trained personnel.

Spray equipment must be capable of delivering the proper ratio (1:1 by volume) of polymeric isocyanate and polyol blend at adequate temperatures and spray pressures.

Substrates must be free of moisture (dew or frost), grease, oil, solvents, and other materials that would adversely affect the adhesion of the polyurethane foam. Substrate temperatures should equal processing range temperatures provided.

Store material in cool, dry location, out of direct sunlight. Caution should be exercised when opening containers as pressure may be present when material has been exposed to elevate temperatures.

SPF materials contain polymeric isocyanate, for details on proper handling and safety equipment, please refer to Material Safety Data Sheet for more information.

Empty drums are non-returnable and should be disposed of by using current industrial practices in accordance with federal, state, or local regulations.

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Quality Management System certified by DQS against DIN EN ISO 9001

Reg. No. 055759 QM

TECHNICAL DATA SHEET

Product	Voracor CY 3049
Description	Voracor CY 3049 is a polyol blend containing polyols, catalyst, surfactant and HFC 245fa blowing agent
Application	Voracor CY 3049 is part of a two-component polyurethane chemical system. When mixed with Voracor CE 3019 polymeric isocyanate, at mix ratio of 1:1 by volume, it will produce a rigid foam designed for optimum insulation efficiency.

Product	Processing Range	GMID
Voracor CY 3049 Poly	60°F - 100°F	258933
Voracor CE 3019 Iso	NA	242504

ASTM D-1622	Core Density, pcf	2.18
ASTM D-1621	Compressive Strength, Parallel, psi	26.4
ASTM D-1623	Tensile Strength, psi	56.3
ASTM D-2856	Closed Cell Content, %	96.0
ASTM E-96	Water Vaport Permeability, perm-inch	2.3
ASTM D-2842	Water Absorption, volume %	1.7
ASTM C-518	Thermal Conductivity, Initial	
	K-Factor, BTU-in/ft^2-h-°F	0.156
	R Value, Per Inch of Thickness	6.5
ASTM D-2126	Dimensional Stability, % Volume Change, 14 days @:	
	-20 °F	< 1.0
	200 °F	< 1.0
	158 °F, >98% RH	<3.3
ASTM E-84	Surface Burning Characteristics @ 4" thickness	
	Calculated Flame Spread Index	20
	Calculated Smoke Index	<350
UL 723	Class I foam. See ASTM E-84 results	

Note: Calculated flammability values, for this or any other material, are not intended to represent the hazards that may be present under actual fire conditions.

** Properties were determined by processing foam with Gusmer H2000 @ 800 psig, preheat of 120/130°F (A/B), hose temp of 120°F with GX7 gun. Application conditions of 64°F and 68% RH.*