



VORACOR* CD 1073 Polyol
VORACOR* CE 108 Isocyanate

Description

Voracor* CD 1073 Polyol / Voracor* CE 108 Isocyanate is a two component polyurethane rigid foam system expanded with HFC-245fa. Suggested application is commercial refrigeration panels.

Typical Component Properties

| | Units | Voracor* CD 1073 Polyol | Voracor* CE 108 Isocyanate | Test Method |
|-------------------|-------|-------------------------|----------------------------|-------------|
| Color | | Amber | Brown | Visual |
| Specific Gravity | g/cm3 | 1.24 | 1.23 | ASTM D 1475 |
| Viscosity @ 77 °F | cPs | 650 | 200 | ASTM D 4878 |

Recommended Process Conditions

| | Units | Limits |
|-------------------------------|-------|-----------|
| Voracor* CE 108 Isocyanate | pbw | 100 |
| Voracor* CD 1073 Polyol | pbw | 88 ± 5% |
| Mixing pressure | psi | 1500-2500 |
| Chemical temperatures, Iso | ° F | 65-85 |
| Chemical temperatures, Polyol | ° F | 65-75 |

Typical Reaction Characteristics

| | Units | |
|------------|---------|---------|
| Cream time | Seconds | instant |
| Gel time | Seconds | 50-80 |

Handling and Storage

| | Units | Voracor* CD 1073 Polyol | Voracor* CE 108 Isocyanate |
|---|---------|----------------------------|-------------------------------|
| Storage temperature | °F (°C) | 60-75 (15-24) | 60-85 (15-29) |
| Storage stability / Shelf life ⁽¹⁾ | months | 3 | 6 |

Typical Polymer Properties

| | Units | Typical | Test Method |
|--------------------------------------|----------------------------|----------------------|-------------|
| Density, Free Rise | pcf | 1.6 ±0.20 | ASTM D-1622 |
| Density, In-Place | pcf | 2.3 ±0.20 | ASTM D-1622 |
| K-factor, Initial at 75 °F mean temp | Btu*in/ft ² h°F | 0.147 | ASTM C-518 |
| K-factor, Initial at 55 °F mean temp | Btu*in/ft ² h°F | 0.138 | ASTM C-518 |
| K-factor, Initial at 20 °F mean temp | Btu*in/ft ² h°F | 0.124 | ASTM C-518 |
| Dimensional Stability | % Volume change | 14 days | ASTM D-2126 |
| Cold Age, -20 °F | | -1 | |
| Humid Heat, 158 °F / 95% RH | | 4 | |
| Dry Heat, 158 °F | | -1 | |
| Compressive Strength | psi | parallel to: Y= 25.3 | ASTM D-1621 |

Typical Polymer Fire Behavior

| Standard | Typical Values ⁽¹⁾ | | | |
|-------------------|-------------------------------|-----------------|---------------|------------------|
| Underwriters Labs | UL 723 | 20 Flame Spread | Smoke 250-400 | 6 inch thickness |

1. This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

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.

Customer Notice

Dow encourages its customers to review their application of Dow products from the standpoint of human health and environmental quality. To help ensure that Dow products are not used in ways for which they were not intended or tested, Dow personnel will assist customers in dealing with ecological and products safety. Your Dow sales representative can arrange the proper contacts.

Contact information :

For more information about PU Systems products, call The Dow Chemical Company :
<http://www.dow.com/pusystems/index.htm>

NOTICE: The information and data contained herein do not constitute sales specifications. The product properties may be changed without notice. No liability, warranty or guarantee of product performance is created by this document. It is the Buyer's responsibility to determine whether Dow products are appropriate for Buyer's use and to ensure that Buyer's workplace and disposal practices are in compliance with applicable laws and regulations. No freedom from any patent owned by Seller or others is to be inferred.



Quality Management System certified by DQS
 against DIN EN ISO 9001
 Reg. No. 055759 QM

