

# CARPOL<sup>®</sup> GSP-355

# *Polyether Polyol*

**CARPOL<sup>®</sup> GSP-355** is a glycerin/sucrose-initiated polyether polyol. The high functionality of the initiators yields a resultant polyol with a nominal functionality of 4.5 and a typical hydroxyl number of 355. Due to this polyol's high functional nature, it is typically used in rigid foam and its applications. Blending this polyol with other polyether polyols allows for foam systems with high to low degrees of crosslinking. In addition, CARPOL<sup>®</sup> GSP-355 is a neutral material, which presents the formulator with complete catalytic control over a system.

## Typical End Use Applications

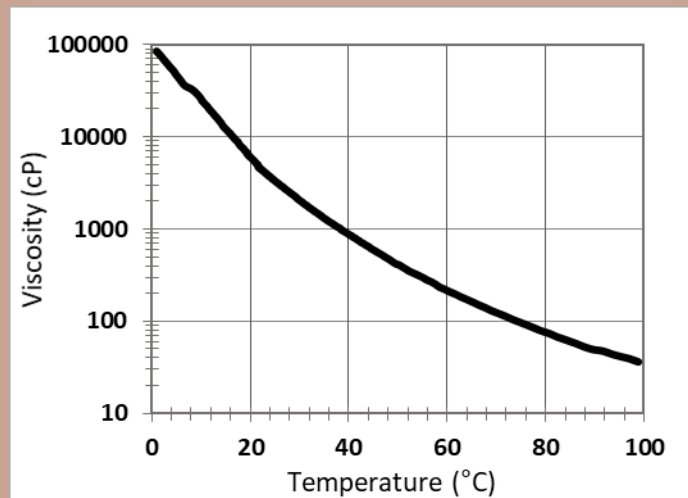
- Insulation
- Molded Rigid Foam
- Rigid Boardstock Foam
- Rigid Spray Coatings

### Typical Analytical Properties\*

Hydroxyl Number (mg KOH / g)		355
pH (10 parts of IPA: 6 parts of H <sub>2</sub> O)		7.0
Moisture (%)	[maximum]	0.08
Color (Gardner)	[maximum]	7
Appearance		Free & Clear
Viscosity @ 25 °C (cP)		3,700
Density @ 25 °C (lb / gal)		9.11
Potassium (ppm)	[maximum]	10.0

\*Please note that these values are not specifications

### Viscosity Profile



### Viscosity Information

77 °F	120 °F	140 °F
3,700 cP	450 cP	200 cP

## CARPOL® GSP-355 Foam Formulation

<u>B-Side Components</u>	<u>Parts</u>
CARPOL® GSP-355	87.70
CARPOL® GP-700	9.70
TEGOSTAB® B-8408	1.00
DABCO® R-8020	0.60
Water	1.00

### Mix Ratio

186 parts Polymeric MDI : 200 parts B-Side

## Reactivity Profile @ 70 °C (seconds)

Cream	72
Gel	211
Free Rise	269
Tack Free	331

## Physical Properties

Free Rise Density (lb/in <sup>3</sup> )	6.9
Compressive Strength, parallel (psi)	345
Compressive Strength, perpendicular (psi)	325
Flexural Strength (psi)	520

## Storage Information

CARPOL® GSP-355 will absorb water if the product container is not secured properly. This may affect reactivity, appearance, and performance. Therefore, it is advised that all receptacles containing this material be tightly fastened and stored in a dry place.

Consult the Safety Data Sheet for additional information.

## Health and Safety Information

Health and safety information is available in the form of a Safety Data Sheet. This literature, describing proper precautions and personal protective gear, is available for review. To receive this information please contact a Carpenter Co. representative.

## Ordering and Shipping Options

### Sample Sizes

1 quart  
1 gallon  
5 gallon

### Products Packaged/Shipped

Drum 460 lb net wt.  
Totebin 2,300 lb net wt.  
Tankwagon 40,000-45,000 lb net wt.  
Railcar 185,000-189,000 lb net wt.

For additional information please contact:

Carpenter Co.  
Chemicals Division  
**Customer Service 800-260-5373**  
5016 Monument Avenue  
Richmond VA 23230

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**Important:** The information contained in this product data sheet is offered for your consideration, investigation, and verification. The data is presented in good faith and is believed to be reliable. Carpenter, however, makes no representation as to the completeness or accuracy. Carpenter makes no warranty, express or implied, with respect to the data contained herein. Carpenter cannot anticipate all conditions under which this data and the product may be used. The conditions of handling, storage, use, and disposal of the product are beyond Carpenter's control. Thus we expressly disclaim responsibility or liability for any loss, damage, or expense arising out of reliance on the information contained herein. You are advised to make your own determination as to safety, suitability, and appropriate manner of handling, storage, use, and disposal. For further information please consult the appropriate Carpenter Safety Data Sheet. **Warning:** These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.