



Technical Data Sheet

ICC-Polyol Polyether Products

Trade Name: Polyol RI4400

Chemical Name: Poly Ether Polyol
Polyether Polyol

I.C.C manufactures a wide range of polyether polyols that allow formulators to produce high quality polyurethanes. Polyols contain reactive hydroxyl (OH) groups which react with isocyanate (NCO) groups on isocyanates to form polyurethanes. **Polyol RI4400** is a glycerin/sucrose-initiated polyether polyol. The high functionality of the initiators yields a resultant polyol with a nominal functionality of 4.2. 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, **Polyol RI4400** is a neutral material, which presents the formulator with complete catalytic control over a system. We offer a wide variety of raw materials for the production of molded rigid foams.

Polyol RI4400 is a clear, light colored and low viscosity polyol. **Polyol RI4400** has excellent compatibility with blowing agents and isocyanates for high index and isocyanurate foams, as well as appliance, high density and general-purpose foam formulations. Also, it is 100% active without any amine catalyst and relatively nontoxic.

Application

Possibility to obtain rigid foams with very good density and Compatibility with reactive polymeric polyols allows extension of application options.

- Insulation
- Rigid Board stock Foam
- Molded Rigid Foam
- Rigid Spray Coatings.

Storage and Handling

Polyol RI4400 is dispatched in polyethylene or corrugated steel, galvanized or carbon steel drums.

Shelf life

Polyol RI4400 is stable for 2 years when stored in the original sealed containers in a cool and dry place.

TEST	STANDARD TEST METHOD	RESULTS
Appearance	—	Liquid
Color at 50°C, APHA	ASTM D-1209	Max. 50
Density at 25°C, g/ml	ASTM D-1298	1.01±0.02
pH (5% aqueous)	ASTM D-1172	6-8
Viscosity at 25°C, cP	ASTM D-445	3900±100
Hydroxyl value, mg KOH/g	ASTM D-4252	440±5
Water, percent	ASTM E-203	Max. 0.5
Functionality	Calculated	4.2

Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling **Polyol RI4400**. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling.

Health Effects

Inhalation: Remove victim from exposure to fresh air immediately, if not breathing, give artificial respiration; if breathing is difficult, give medical oxygen. Get medical aid immediately.

Ingestion: Rinse mouth with plenty of milk or water (only if victim is conscious and alert). Get medical aid immediately.

Skin Contact: If skin contact occurs, wash the affected area with plenty of water and a neutral soap for a minimum of 5 minutes.

Eye Contact: If eye contact occurs, wash with plenty of clean water or amphoteric eye solution for a minimum of 15 minutes, holding the eyes open, medical advice should be followed.