

CRESGREN S-40 is an eco-friendly CFC free formulated polyether polyol to be used in combination with Cresnate N-31 isocyanate for the spray application of polyurethane rigid foams. **CRESGREN S-40** has been preblended with HCFC – 141b.

APPLICATION

PU spray foam system for the production of spray foam for insulation as well as water proof application. The system can be applied on substrate like metal, plywood and concrete. Suitability must be examined by the user prior to commercial use.

CHEMICAL CHARACTERISTICS

Polyol-Component: Mixture of polyols, fire retardants, stabilizer, catalyst, blowing agent HCFC141 b
 Iso-Component: Polymeric diphenylmethane diisocyanate .

ADVANTAGES

- Unique composition structure can provide better flowability.
- Due to low viscosity, it is suitable for the production which require flowability.
- Low thermal conductivity.
- Good foam stability.
- Close cell content >90%.

PACKING

210kg drum.

STORAGE

CRESGREN S-40 should be stored in tightly closed containers at temperature between 15°C and 25°C and should not be exposed to direct sunlight.

SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Under recommended storage conditions shelf life of this product is 6 months from the date of manufacturing.



TECHNICAL PROPERTIES

Description	Value	Unit
Appearance	Yellow to brown Liquid	ASTM D 1475
Viscosity @25°C	350-550	mPa·s
Density @25°C	1.11-1.26	g/cm ³
Mix ratio [CRESGREN S-40 : CRESNATE N-31]	100:100	Volume Ratio
Cream time	4 (±2)	Secs
Gel time	8 (±3)	Secs
Tack Free Time	10 (±3)	Secs
Free Rise Density	28 (±1)	kg/m ³
Applied spray density	45 (±5)	kg/m ³
Overall Density	45 (±5)	kg/m ³
Initial K value	≤0.023	W/mK

Description	Value	Unit
Close cell content	%	≥90
Compressive Strength at 10% deformation	≥150	kPa
Flammability	B3	DIN 4102
Dimensional Stability -20°C for 48 hrs +70°C for 48 hrs 25 °C for 48 hrs	< 1	% change in volume

Reaction Profile at 25°C at 3000 rpm bench mixer

HEALTH & SAFETY

Always use protective clothing, eye goggles and hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately clean with fresh water and medical attention sought.

Product Disclaimer:

Kanz chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable. All recommendations regarding the use of product are made without guarantee since the conditions of use are beyond the company's direct control. It is the customer's responsibility to ensure each product is fit for the purpose for which they intend to use it. Furthermore the specifications and description herein cannot be used to void a contract.

*Refer material safety data sheet (MSDS) for further information.

CRESNATE N-31 is a Methylene Diphenylmethane Diisocyanate(MDI)-based composition containing functionality isocyanates. It is a brown liquid at ambient temperatures.

USES

CRESNATE N-31 can be widely used in the production of rigid Polyurethane Foam insulating materials, also used in PIR foam.

PREPARATION

- Unique composition structure can provide better flowability.
- Due to low viscosity, it is suitable for the production which require flowability.

PACKING

250 kg drum and 1000 kg IBC.

STORAGE

CRESNATE N-31 is a reactive chemical, reaction with atmospheric moisture happens easily and leads to the formation of insoluble ureas and carbon dioxide gas, which can result in pressure build-up in closed containers and viscosity increase of the product. Containers must therefore be absolutely dry and carefully sealed after congested with nitrogen. Containers of **CRESNATE N-31** should be kept properly closed and stored indoors at ambient temperature (15-35°C) in a well-ventilated area. Storage at low temperature (below 5°C) may lead to some crystallization; this material must, therefore, be protected from frost.

SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Under recommended storage conditions shelf life of this product is 12 months from the date of manufacturing.

HEALTH & SAFETY

Always use protective clothing, eye goggles and hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately clean with fresh water and medical attention sought.



TECHNICAL PROPERTIES

Description	Value	Unit
Appearance	Brown Liquid	-
Viscosity @25°C	100-300	mPa·s
NCO Content	30.5-32.0	%
Density @25°C	1.220-1.250	g/cm ³
Acid Content	≤0.040	%
Hydrolysable Chlorine	≤0.30	%

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