Technical Data Sheet

Polyol Sanyol 3430

Revision: December 2025

Product Description

Sanyol 3430 is a formulated polyol for the production of PU foam via reaction with polyisocyanate in the presence of cyclopentane or synthesized 141b blowing agent during the process. Excellent operationality, flowability, and good demolding are the main features when it reacts with PM-200 or KP-200 as recommended isocyanates for the formulation. As with any product, the use of the Sanyol 3430 in a given application must be tested (including field testing, etc.) to determine suitability.

Application Areas

Sanyol 3430 is particularly used for the production of PU foam having a rigid core applicable in domestic and commercial freezers and refrigerator insulations.

Benefits

- Good density distribution
- High compressive strength
- High Adhesion to metal and polymeric bodies
- Excellent dimensional stability (low shrinkage)
- Good insulating properties
- High moisture and aging resistances

Processing Conditions

Sanyol 3430 system can be processed by a high (or low) pressure machine. It is essential to have equipment that consistently delivers accurate amounts of polyol (containing blowing agent) and isocyanate to be mixed to achieve a production with high performance.

Packaging, Storage & Handling

Sanyol 3430 is packed and delivered in IBC tank and Iron drums, 220 kg per drum as a standard pack. It should be kept in properly sealed, moisture-tight containers, and stored indoors in a dry and well-ventilated area at ambient temperature (15-35 ℃). Storage at low temperatures (below 5 ℃) may lead to an increase in the viscosity markedly, and this may cause difficulties in processing. Extended storage at temperatures above 60 (℃) is not recommended to prevent from deterioration of the product quality.

Safety

Most polyols generally present no significant hazard in use when simple precautions are followed. No special ventilation is recommended under normal utilization beyond that needed for normal comfort control. Eye protection such as chemical splash goggles and/or face shields must be worn in feasible eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses must not be worn. Emergency eye-wash fountains and safety showers should be available near any potential exposure. By all means, there is no skin hazard. However, washing hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work is recommended.

Shelf Life

Under recommended storage conditions, the shelf life of Sanyol 3430 is six months from the date of production.

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Product Specification

Property	Unit	Value	Test Method /Standard
Viscosity at 25 (°C)	mPa.s	1500 - 2000	ASTM D4878
Density at 25 (°C)	g/cm^3	1.05 ± 0.05	ASTM D4669
Acid Content	mg KOH/g	< 1	ASTM D4662
OH Value	mg KOH/g	300 - 350	ASTM D4274
NCO Content	%	30.5 - 32	ASTM D5155
Water Content	%	< 0.1	ASTM D4672

Parameters of PU Foam

Property	Unit	Value	Test Method / Standard
Sanyol 3430/Isocyanate/cp*	(w/w)	100/140-145/10-12	Calculated
Mixing time	sec	10	-
Cream Time	sec	12±1	ASTM D7487
Gel Time	sec	60±2	ASTM D7487
Tack Free Time	sec	120±10	ASTM D7487
Free Rise Density	kg/m^3	24±1	ASTM D7487
Overall Density	kg/m^3	40	ASTM D1622

* In the presence of 141b as blowing agent instead of cp (cyclopentane), the weight percentage is ca. 18% and Isocyanate is ca. 130 – 132%;

† RH: Relative Humidity

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