Technical Data Sheet

Polyol Sanyol 4035

Revision: July 2026

Product Description

Sanyol 4035 is a formulated polyol for the production of sandwich panel PU foam via reaction with polyisocyanate. Excellent operationality, flowability, and good demolding are the main features of Sanyol 4035 when it reacts with PM-200 or KP-200 as recommended isocyanates in the PU foam's formulation. The use of the Sanyol 4035 in a given application must be tested (including field testing, etc.) to determine suitability.

Processing Conditions

The Sanyol 4035 system can be processed by a high-pressure (or low-pressure) machine. It is essential to have equipment that consistently delivers accurate mixing of polyol, blowing agent (141B), and isocyanate to achieve production with high performance.

Application Areas

Sanyol 4035 is particularly suitable for the production of **discontinuous** sandwich panels with a rigid foam core having a high thickness (typically more than 10 cm), particularly for industrial cold rooms and freezer rooms.

Benefits

- Good density distribution (High close cell)
- High mechanical (compressive, flexural) strength
- Excellent dimensional stability (very low shrinkage)
- High moisture and aging resistance
- High thermal insulating properties

Package(s)

Sanyol 4035 is packed and delivered in Iron drums, 200 kg per drum as a standard pack.

Safety, Storage & Handling

Sanyol 4035 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 marked viscosity increase, and this may cause difficulties in processing. Extended storage at temperatures above 60 (℃) is not recommended to prevent deterioration of the product quality.

Product Specification

Property	Unit	Value	Test Method /Standard
Viscosity at 25 °C	cp	1000 – 1300	ASTM D4878
Density at 25 °C	g/cm^3	1.1 ± 0.05	ASTM D4669
Water Content	%	< 0.1	ASTM D4672
Acid Content	mg KOH/g	< 1	ASTM D4662
NCO Content (Isocyanate part)	%	30.5 – 32	ASTM D2572

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Parameters of PU Foam

Property	Unit	Value	Test Method / Standard
Sanyol 4035/Isocyanate/141b gas	(w/w)	100/130/14	-
Cream Time	sec	32 – 34	ASTM D7487
Gel Time	sec	208 – 212	ASTM D7487
Tack Free Time	sec	220 – 230	ASTM D7487
Free Rise Density	kg/m^3	30 – 31	ASTM D7487

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