Technical Data Sheet

Polyol Sanyol 4015

Revision: July 2026

Product Description

Sanyol 4015 is a formulated polyol for the production of PU foam via reaction with polyisocyanate in the presence of cyclopentane or 141b blowing agent during the process. Excellent operationality, flowability, and good demolding are the main features of Sanyol 4015 when it reacts with PM-200 or KP-200 as recommended isocyanates. The use of the Sanyol 4015 in a given application must be tested (including field testing, etc.) to determine suitability.

Processing Conditions

The Sanyol 4015 system can be processed by a high (or low) pressure machine. It is essential to have equipment that consistently delivers accurate mixing of polyol and isocyanate to achieve production with high performance.

Application Areas

Sanyol 4015 is particularly used for the production of metal-faced **continuous** sandwich panels having a rigid core.

Benefits

- Good density distribution
- High Adhesion to the panel sheet
- High mechanical (compressive, flexural) strength
- Excellent dimensional stability (very low shrinkage)
- High moisture and aging resistance
- Good insulating properties

Package(s)

Sanyol 4015 is packed and delivered in Iron drums, 200 kg per drum as a standard pack.

Safety, Storage & Handling

Sanyol 4015 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.

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Product Specification

Property	Unit	Value	Test Method/Standard
Viscosity at 25 °C	cp	1500 - 2000	ASTM D4878
Density	g/cm^3	1.1 – 1.15	ASTM D4669
OH Value	mg KOH/g	300 – 350	ASTM D4274
Water Content	%	< 0.15	ASTM D4672
Acid Content	mg KOH/g	< 1	ASTM D4662
NCO Content	%	30.5 – 31	ASTM D5155

Parameters of PU Foam

Property	Unit	Value	Test Method/Standard
Sanyol 4015/NCO/Cyclopentane*	(w/w)	100/110-120/18	Calculated
Mixing Time	sec	10	-
Cream Time	sec	12 ± 3	ASTM D7487
Gel Time	sec	25 ± 2	ASTM D7487
Tack Free Time	sec	33 ± 3	ASTM D7487
Free Rise Density	kg/m^3	35 – 40	ASTM D7487
Overall Density	kg/m^3	40 – 42	ASTM D1622

** The weight percentage of 141b gas is about 22-25%.*

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