Technical Data Sheet

Polyol Sanyol 2025H

Revision: July 2026

Product Description

Sanyol 2025H is a formulated polyol for the production of PU foam applicable in the heavy car's air filter via its reaction with polyisocyanate.

Application Area

PU Foams made with this product are used in the manufacture of air filters for heavy cars (flat and conical types). The soft foam made by the Sanyol 2025H is suitable for use in motor and engine environments with heavy–duty performance.

Benefits

- High moisture and thermal resistances
- No shrinkage
- Suitable elasticity
- High physical, mechanical, and anti-fatigue properties
- Resistant to fuel and oil degradation

Processing Conditions

The Sanyol 2025H system can be processed by a high (or low) pressure machine. It is essential to have equipment that consistently delivers accurate amounts of polyol and isocyanate to be mixed to achieve production with high performance.

Safety, Storage & Handling

The B-component (poly isocyanate, Metanate-200) irritates the eyes, respiratory organs, and the skin and is harmful by inhalation. Isocyanates are highly sensitive to moisture, and therefore, they should be kept in closed packs away from direct sunlight. On processing these, take note of the necessary precautionary measures described in the Material Safety Data Sheets (MSDS). Sanyol 2025H should be kept in properly sealed, moisture-tight containers and stored indoors at ambient temperature (15-35 °C) in a dry and well-ventilated area.

Package(s)

Iron drums, IBC tanks, gallons, and other suitable packages, if necessary.

Shelf Life

Under recommended storage conditions, the shelf life of Sanyol 2025H is provisionally six months from the date of production.

Product Specification

Property	Unit	Value	Test Method/Standard
Viscosity at 25 (°C)	cp	800 – 1500	ASTM D4878
Density at 25 (°C)	g/cm^3	1.0 – 1.1	ASTM D4669
OH Value	mg KOH/g	250 – 300	ASTM D4274
Acid Content	mg KOH/g	< 0.7	ASTM D4662
Water Content	%	< 0.1	ASTM D4672

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Operation Parameters/Properties of PU Foam

Property	Unit	Value (no Filler)	Test Method/Standard
Sanyol 2025/NCO	(w/w)	100/33	Calculated
Mixing Time	sec	7 - 10	-
Cream Time	sec	45 – 55	ASTM D7487
Gel Time	sec	95 – 105	ASTM D7487
Tack Free Time	sec	130 – 150	ASTM D7487
Free Rise Density	kg/m^3	360 – 380	ASTM D7487
Mold Temperature	°C	25 – 30	-
Demolding time	min	10	ASTM D7487
Hardness (Shore A)	-	25 – 35	ISO 7619

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