Technical Data Sheet

Polyol Sanyol 2125

Revision: July 2026

Product Description

Sanyol 2125 is a formulated polyol for the production of semi-rigid PU foam applicable in the front bumper of a car via its reaction with polyisocyanate in the presence of cyclopentane or synthesized 141b blowing agent.

Application Area

Semi-rigid PU Foams made by this product are used in the manufacture of cars' front bumpers in the automotive industry.

Benefits

- Thermal stability
- No shrinkage
- Suitable flexibility (very low deformation)
- High abrasion and impact resistance
- Good demolding

Processing Conditions

The Sanyol 2125 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 (polyisocyanate, PM-200 or KP-200) irritates the eyes, respiratory organs, and the skin. Sensitization is possible through inhalation and skin contact. PMDI is harmful by inhalation. On processing these, take note of the necessary precautionary measures described in the Material Safety Data Sheets (MSDS). Sanyol 2125 should be kept in properly sealed, moisture-tight containers and stored indoors at ambient temperature (15-35 ℃) 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 2125 is provisionally six months from the date of production.

Product Specification

Property	Unit	Value	Test Method/Standard
Viscosity at 25 (°C)	mPa.s	3000 – 4000	ASTM D4878
Density at 25 (°C)	g/cm^3	1.05 ± 0.05	ASTM D4669
OH Value	mg KOH/g	300 – 350	ASTM D4274
Acid Content	mg KOH/g	< 1	ASTM D4662
NCO Content	%	30.5 – 32	ASTM D5155
Water Content	%	< 0.08	ASTM D4672

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Parameters of PU Foam

Property	Unit	Value	Test Method/Standard
Sanyol 2125/NCO/Cyclopentane*	(w/w)	100/140-150/12	Calculated
Mixing Time	Sec	10	-
Cream Time	sec	20 – 25	ASTM D7487
Gel Time	sec	60 – 70	ASTM D7487
Tack Free Time	sec	100 – 110	ASTM D7487
Free Rise Density	kg/m^3	25 – 30	ASTM D7487
Mold Density	kg/m^3	40	ASTM D1622

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

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