



DUNAPOL® C 045 HLL

Rev. N°4 - Date 04/30/2019

Description

Two-component polyurethane system suitable to obtain a rigid foam

Blowing agents: CO₂

Typical characteristics - Polyol

Component Name			Polyol DUNAPOL® C 045 HLL
Density (25°C/77°F)	ASTM D891	lb/ft ³ (g/l)	66.2-68.7 (1060-1100)
Viscosity (25°C/77°F)	ASTM D2196	P (mPa s)	9.5-10.5 (950-1050)
Storage temperature		°F (°C)	50-86 (10-30)
Shelf Life		Months	6
Appearance			Light yellow liquid

Typical characteristics - Isocyanate

Component Name			Isocyanate DUNAPOL® A 310
Density (25°C/77°F)	ASTM D891	lb/ft ³ (g/l)	74.9-77.4 (1200-1240)
Viscosity (25°C/77°F)	ASTM D2196	P (mPa s)	1.8-2.6 (180-260)
Storage temperature		°F (°C)	50-95 (10-35)
Shelf Life		Months	6
Appearance			Brown liquid

Mixing Ratio

Mixing ratio by weight POL/ISO	parts	100/110
Mixing ratio by volume POL/ISO	parts	100/100

Typical characteristics of reaction

Components temperature		°F (°C)	70 (21)
Mixing time		h min' sec"	50"
Cream time		h min' sec"	1'00"-1'10"
Gel time		h min' sec"	3'45"-4'15"
Free rise density	EN 1602/ASTM D1622	lb/ft ³ (kg/m ³)	2.8-2.9 (45-47)

Characteristics of the polymer (int. procedure DU/25)

Applied density	EN 1602/ASTM D1622	lb/ft ³ (kg/m ³)	4.0 (65)
Compressive resistance – Average	EN 826/ASTM D1621	psi (kg/cm ²)	61.2 (4,3)
Closed-cell content	ASTM D6226	%	>92
Thermal conductivity - Initial (10°C/50°F)	EN 12667/ASTM C518	BTU·in/hr·ft ² ·°F (W/mK)	0.17 (0,024)
Fire reaction (maximum extent of burnt length)	EN ISO 3582	inches (mm)	2.36 (<60)
Fire reaction (extinguishing time)	EN ISO 3582	s	120



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Handling notice

In order to obtain the best results, thermostatic conditioning of components is essential.

Wherever possible apply products in ventilated areas, wearing gloves, protective eyewear, barrier creams and suitable protective clothes. Avoid contact with unhardened materials.

In case of accidental contact with the skin, wash with lukewarm water and soap for at least 10 minutes. Do not wash affected areas with solvents as this may increase contamination.

In some applications polyurethane may present fire risks, e.g. if exposed to fire or to excessive heat in presence of oxygen or air, including when welding or cutting with torches.

Lifetime of products refers to materials stored in sealed containers in dry rooms, at recommended temperatures and protected from direct sunlight.

The expiry date is printed on the packaging.

Data coming from tests performed in laboratory, with components at the indicated temperature; manual mixing with a mechanical mixer at 1500-2500 rpm, in free rise in box/glass or in closed mold at the suggested temperature.

It is the Customer's responsibility to determine if product described herein is appropriate for Customer's purposes and end-use and to ensure that working place, storage and disposal practices comply with any applicable law.

Remarks

For usage information, personal protective equipment, transport, storage and disposal of waste it is essential to refer to the Material Safety Data Sheets.

Values shown are determined from laboratory tests and obtained under controlled conditions; they outline typical characteristics and they do not constitute anyhow a sales specification; they are based on DUNA-USA's current knowledge and experience of the products when properly stored, handled and applied in accordance with our recommendations.

This Technical Data Sheet cancels and replaces any other previous issue.

DUNA-USA Inc. does not accept responsibility for incorrect use of its products as it cannot ensure the correct methods of application have been followed; we therefore specifically disclaim any liability for consequential or incidental damages of any kind, including lost profits.

DUNA-USA Inc. reserves the right to change the data in this information sheet without any prior notice.
