

ORTHOLEGERE 60

The product ORTHOLEGERE 60 is a ready-to-use polyol, expanded with water, without CFC nor substitute. It is aimed to the molding of very light polyurethane foam pieces with a hardness of 40 Shore A.

The two-components system ORTHOLEGERE 60 - HARDENER MD has an excellent moldability. The resulting foam has a very thin cellular structure, a very good dimensional stability and a fast demolding time.

Application in orthopedic field: this foam can be used to replace plaster for the realization of positive corset, seat-corset or orthosis for lower limb. Resists to 200°C thermoforming.



Characteristics of the polymerized product

Hardness Shore A: approx. 40

Density g/L: approx. 90

Expansion: x11.1

Implementation

The resin/hardener mixing ratio is 100/100.

This system can be implemented either manually (mixed with an adapted mixer at 2.000 or 3.000 rpm), or with Low or High-Pressure machines.

Reactivity

If the temperature of the components is around 20°C, the foaming characteristics are the following:

PARAMATERS	DURATION*
Expansion start time	≈ 40 sec
Tack-free time	≈ 4 min
Demolding time	≈ 20 min
Full hardening time	≈ 24 h

(*) measurements made at 20°C on 50 g of mixture

Characteristics of the components

ORTHOLEGERE 60:

- Chemical basis: polyols polyether mix
- Expansion agent: H₂O
- Color: transparent
- Viscosity at 25°C: 300 to 500 mPa.s
- Density at 25°C: 1 030 to 1 050 g/L
- Filler: none

HARDENER MD:

- Description: 4,4' diphenylméthane diisocyanate based polyisocyanate (polymeric MDI)
- NCO rating (%): 30 to 31
- Density at 25°C: 1 235 g/L
- Flash point: > to 200° C
- Viscosity at 25°C: 200 to 230 mPa.s
- Color: brown, more or less dark depending on the batches
- Sediments: < to 0,1%

Storage and packaging

The products are guaranteed 18 months if they are stored between 15°C and 25°C in sealed drums in a dry place.

STORAGE	ORTHOLEGERE 60
Plastic drum, 2 kg	ORT R12
Plastic drum, 5 kg	ORT R15

STORAGE	HARDENER MD
Plastic drum, 2 kg	DMD 002
Plastic drum, 5 kg	DMD 005

Customs' codes

ORTHOLEGERE 60	39072020
HARDENER MD	39093100