

Product Information

Prototypes/Design

PU 8570

FEATURES

- Transparent colorless
- Good UV resistance
- Hardness 75 Shore A

COMPOSITION

- Polyol PU8570 A
- Isocyanate PU8570 B



PU8570 is a flexible polyurethane system 75 Shore A hardness, characterized by excellent transparency and yellowing resistance.

APPLICATIONS

- Designed prototyping and design parts.

TYPICAL PROPERTIES

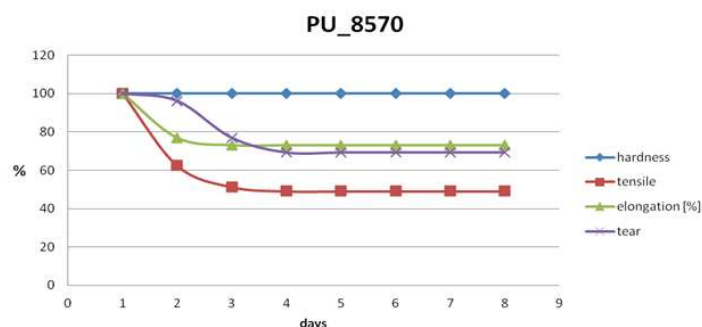
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Property	Unit	Value
Colour (Part A/Part B)	visual	Colorless/colorless
Density at 23°C (Part A/Part B)	g/cm ³	1.10/1.07
Viscosity at 23°C (Part A/Part B)	mPa.s	1320/25
Mix ratio	pbw	100 : 45
Pot life [150g at 23°C]	minutes	12
Gel time [150g at 23°C]	minutes	18
Demoulding 10mm at 23°C	hours	8
Demoulding 3mm at 23°C	hours	12
Demoulding 3mm at 60°C	hours	1
Polymer appearance	visual	transparent colorless
Hardness	Shore	75 A
Tensile strength	MPa	32
Elongation at break	%	540
Linear shrinkage [500x50x10mm]	%	0.12

HYDROLYSIS RESISTANCE

Water absorption: 1.15%.

Mechanical properties after immersion in water 7 days at +70°C.



HOW TO USE

Open both containers A and B and examine the components; if they show signs of crystallization, place them in an oven at 50-60°C until the crystals are completely melted. Mix Part A (polyol) before each withdrawal from the container. The two components must be processed at a temperature between +20 and +30°C.

MIXING

Mix the two components in the correct mixing ratio, at low speed, avoiding the inclusion of air and make sure that the material on the sides and bottom of the container is well mixed. Pour into a new container and repeat mixing. To eliminate air bubbles, we recommend vacuum degassing the mixture before and after casting.

CURING

The product can generally be processed within the times indicated above. The hardening time depends on the mass: thinner thicknesses require longer curing times. A high temperature of the product or of the environment lead to reductions in workability and hardening times. Contrariwise, low temperatures mean longer times. In the presence of thin thicknesses, we recommend heating the mold to 50-60°C. The polymer, in particular in the presence of thin thicknesses, can present surface stickiness. In this case we recommend a post-curing treatment at 60°C.

HANDLING PRECAUTIONS

The information for a correct and safe handling of the products are contained in the safety data sheet. Consult the safety data sheets before use for complete information on the risks for health and environment and for suitable protective devices to be adopted. Share the safety

data sheets with all the staff involved in the use of the products.

USABLE LIFE - STORAGE

Polyol and isocyanate must be stored in the original unopened containers at a temperature between +10°C and +35°C. Isocyanates can crystallize at low temperatures. Bring the components to 20-25°C before use. The two components are sensitive to humidity. Be sure to close containers tightly after use.

Polyol and isocyanate, if stored in the specified conditions, have a shelf life of 6 months from the date of manufacture.

PACKAGING

The components are supplied in 25 liter cans, 200 liter drums or 1000 liter tanks. For other packaging please contact our sales department.

LIMITATIONS

This product is neither tested nor represented as suitable for food contact, skin contact or medical uses.

LIMITED WARRANTY

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