r u b e
PRODUCTOS TÉCNICOS S.L.

Camiño do bosque, 11
Apdo 73 - 36417 - Mos
Pontevedra - SPAIN
Tel: +34 986 344 090
Fax: +34 986 344 864
rube@rubept.com
www.rubept.com

TECHNICAL SPECIFICATION

RUBEPOL 90

DESCRIPTION

The elastomer resin 0090 Comp. A with the hardener 0090 Comp. B turns into a rubber like product, without charge, inside the polyurethane two-compounds system, able to perfectly produce any technical prototype, flexible and elastic, with a very good acceptance due to its **high elongation, great resistance to break and good resistance to wearing out.**

To get the best results in its technical properties, it is convenient, to apply a thermal treatment of 80ºC to the casted pieces, for 4 hours. The casted material can be demoulded after 120 minutes, if this curing at 80ºC is done. Once the piece is demoulded, it is convenient to a thermal treatment, with no need of keeping the piece in the mould.

Although the mixture is viscous, it is possible to do some casting easily, even for big quantities, for example 500 grs.

MIXING RATE

100 parts in weight of resin 0090 A
50 parts in weight of resin 0090 B

It is recommended to keep both components of resin 0090 at room temperature (25 ° C) and cast the mixture inside the tempered mould at 80ºC. According to the thickness of the pice, it can be demoulded after 120 minutes.

As per previous indications it is necessary to apply a thermal treatment of 80ºC for 4 hours to the demoulded pieces.

PROPERTIES

Viscosity: medium high.
It can be casted in a machine or through gravity.
Good technical characteristics. It is also available with a lifetime extender.

APPLICATION FIELDS

Prototype pieces.
Production of technical parts.
Manufacturing of short series.

PRESENTATION

Resin 0090 - Comp. A	1 Kg / 5 Kgs
Resin 0090 - Comp. B	0,50 kg / 2,50 Kgs

STORAGE

From 6 to 9 months at 18 - 25 °C in the original closed packaging.

r u b e
PRODUCTOS TÉCNICOS S.L.

Camiño do bosque, 11
Apdo 73 - 36417 - Mos
Pontevedra - SPAIN
Tel: +34 986 344 090
Fax: +34 986 344 864
rube@rubept.com
www.rubept.com

TECHNICAL SPECIFICA-

RUBEPOL 90

PROPERTIES OF THE COMPONENTS

		Component A	Component B
Colour:		neutral	transparent yellow
Density(20°C):	gr./cm^3	approx. 1,00	approx. 1,20
Viscosity (25°C):	mPas	approx. 2.200	approx. 800

PROPERTIES OF THE MIXTURE

Mixing rate	p.p.p.	100:50
Mixture viscosity (25°C)	mPas	approx. 1.500
Mixture density (20°C)	gr./cm^3	approx. 1,09
Mixture lifetime (20°C) 100 grs.	minutes	approx. 5 - 6
Demoulding according To the thickness of the walls at 70°C:	minutes	120*

*In some cases it can be demoulded between 90 and 120 minutes, but it is necessary to keep the casted pieces at 80°C for 4 hs., to get the values indicated in the technical specifications, specially elongation and breaking strength.

MECHANICAL PROPERTIES OF THE POST-CURED MATERIAL- 3 days at room Temp.

Shore A Hardness	DIN 53505	points	approx. 88
Stretching resistance	DIN 53455	N/mm²	approx. 11,6
Elongation	DIN 53455	%	approx. 760
Breaking strength	DIN 53515	N/mm	approx. 42

MECHANICAL PROPERTIES OF THE POST-CURED - applying + 4hs 80ºC

Shore A hardness	DIN 53505	points	approx. 90
Stretching resistance	DIN 53455	N/mm²	approx. 14,0
Elongation	DIN 53455	%	approx. 1600
Breaking strength	DIN 53515	N/mm	approx. 50
Resistance to temperature	Internal method	°C **	approx. 95

The post cured material also reaches these good mechanical properties, if after casted from a tempered mould, the piece is post-cured inside the mould, for at least 4 hours.

** The material which has been post-cured for 4 hs. at 80°C, is under a temperature of 95°C noticing that hardness reduces its value to 88 Shore A, keeping its other values of technical specification almost unchanged.