

### DESCRIPTION

Casting resin for numerous electrical applications especially for low or medium voltage.  
Example: coating of electronic cards and components.

### PROPERTIES

- Two-component liquid polyurethane resin
- Solvent free, unfilled
- Outstanding immersion and saline fog behaviour
- Very flexible

PHYSICAL PROPERTIES				
Composition		POLYOL RE 11263-(92)	ISOCYANATE RE 1110	MIXED
Mix ratio by weight		100	19	
Mix ratio by volume at 25°C		100	16	
Aspect		Liquid	Liquid	Liquid
Colour		Black	Dark Amber	Black
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	1725-1925	300-400	1615-1735
Specific gravity at 25°C	ISO 1675 : 1985	0.91-0.95	1.13-1.17	0,94-0,98
Specific gravity of cured product at 23°C	ISO 2781 : 1996	-	-	0,96-1,00
Gel Timer at 25°C on 119 g (min)	Gel Timer TECAM			10-13

MECHANICAL PROPERTIES at 23°C <sup>(1)</sup>				
Hardness		ISO 868 : 2003	Shore A1	24-28
Tensile strength		ISO 37 : 2011	MPa	0.70-1.10
Elongation at break		ISO 37 : 2011	%	300-500
Tensile Modulus		ISO 37 : 2011	MPa	0.25-0.60
Compressive modulus		ISO 604 : 2002	MPa	1

<sup>(1)</sup> Average values obtained on standard specimens / Hardening 12 hours at 80°C + 4 hours 23°C

THERMAL AND SPECIFIC PROPERTIES at 23°C <sup>(1)</sup>				
Working temperature		-	°C	-60 / +100
Glass transition temperature (Tg)		ISO 11359 : 1999	°C	<-50
Coefficient of thermal expansion (CTE) [-30 to + 80] °C		ISO 11359 : 1999	10 <sup>-6</sup> K <sup>-1</sup>	200-340
Thermal conductivity		ISO 2582:1978	W/m.K	0.20
Water absorption (23°C – 24 hours)		ISO 62:1999	%	0.20-0.45
Directive 2002/95/CE (ROHS) <sup>(2)</sup>		-	-	Conform

<sup>(2)</sup> European Directive on the restriction of the use of hazardous substances for electrical and electronical equipments

## DIELECTRICAL AND INSULATING PROPERTIES at 23°C <sup>(1)</sup>

Dielectric constant $\epsilon$ (30 kHz) at -40°C	CEI 60250 : 1969	-	Min 2.5
Dielectric constant $\epsilon$ (30 kHz) at 25°C	CEI 60250 : 1969	-	3.5
Dielectric constant $\epsilon$ (30 kHz) at 85°C	CEI 60250 : 1969	-	Max 4.5
Dissipation factor $\tan \delta$ (100 Hz)	CEI 60250 : 1969	-	$2 \cdot 10^{-2}$
Transversal Resistivity	CEI 60093 E2:1980	$\Omega \cdot \text{cm}$	$1 \cdot 10^{12} - 1 \cdot 10^{17}$

## HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products :

- Ensure good ventilation.
- Wear gloves, safety glasses and waterproof clothes.

For further information, please consult the product safety data sheet.

## STORAGE CONDITIONS

Shelf life of product is 12 months for both parts, in a dry place and in their original unopened containers at a temperature between 15 and 30°C.

Any open can must be tightly closed under dry inert gas (dry air, nitrogen, etc...).

Caution: Colours of the product may change after long ageing. RE 11263 (92) POLYOL needs to be gently stirred before using.

## PACKAGING

RE 11263 (92) POLYOL	RE 1110 ISOCYANATE
20 kg	2 kg 20 kg

## GUARANTEE

The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantee the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications