

DESCRIPTION

Casting resin is used with a two-component machine. Recommended for electronic cards coating, electrical connection or for potting non watertight cases.

PROPERTIES

- Fast curing
- Process by dispensing equipment or cartridge
- Semi-rigid
- Delayed thixotropy at 20 second

PHYSICAL PROPERTIES				
Composition		POLYOL RE 12602-(91)	ISOCYANATE RE 12602	MIXED
Mix ratio by weight		127	100	
Mix ratio by volume at 25°C		100	100	
Aspect		liquid	liquid	thixotropic
Colour		black	dark amber	black
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	6,000	6,500	-
Specific gravity at 25°C	ISO 1675 : 1985	1.44	1.15	-
Specific gravity cured product at 23°C	ISO 2781 : 1996	-	-	1.30
Thixotropy time (s)	TROMBONAT			20
Gel Time at 25°C on 200 g (min)	Gel Timer TECAM			7
Curing time at 25°C	Hours			12-24
Final hardness at 25°C	Days			7

MECHANICAL PROPERTIES at 23°C ⁽¹⁾			
Hardness	ISO 868 : 2003	Shore D1/D15	57 / 45
Tensile strength	ISO 37 : 2011	MPa	9
Elongation at break	ISO 37 : 2011	%	120

⁽¹⁾ Average values obtained on standard specimens / Hardening 16 hours at 80°C

PROCESSING

Before use it is necessary to mix the Polyol until both colour and aspect become homogeneous. Polyol and Isocyanate have to be mixed at a temperature higher than 18°C according to the mix ratio indicated on the technical data sheet. Before casting check that parts or moulds are free of any trace of moisture.

THERMAL AND SPECIFIC PROPERTIES ⁽¹⁾

Working temperature	-	°C	-50 / +110
Thermal conductivity	ISO 2582 :1978	W/m.K	0.30
Glass transition temperature (T _g)	ISO 11359 : 1999	°C	20
Coefficient of thermal expansion (CTE) [-50 to +10]°C [+40 to +120]°C	ISO 11359 : 1999	10 ⁻⁶ K ⁻¹	70 200
Water absorption (23°C – 24 Hours)	ISO 62 :1999	%	0.45
Directive 2002/95/EC (ROHS) ⁽²⁾	-	-	conform

⁽¹⁾ Average values obtained on standard specimens / Hardening 16 hours at 80°C.

⁽²⁾ European directive on the restriction of the use of certain hazardous substances electrical and electronic equipment.

DIELECTRIC AND INSULATING PROPERTIES AT 23°C ⁽¹⁾

Dielectric strength (50 Hz)	CEI 60243-1 E2 :1998	kV/mm	18
Dielectric constant ε (50 Hz)	CEI 60250 : 1969	-	-
Dissipation factor tan δ (50 Hz)	CEI6 60250 : 1969	-	-
Volume resistivity (1000 V)	CEI 60093 E2 : 1980	Ω.cm	-

HANDLING PRECAUTIONS

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

- Ensure good ventilation.
- Wear gloves, glasses and protective clothes.

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

STORAGE CONDITIONS

Shelf life of both parts is 12 months in a dry place and in their original unopened containers at a temperature between 15 to 25°C.

Shelf life is 9 months for 50ml cartridges, and 6 months for 400ml cartridges.

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

PACKAGING

POLYOL 1 x 12,7 kg 1 x 240 kg	ISOCYANATE 1 x 10 kg 1 x 189 kg	Box of 12 cartridges of 50 ml Box of 12 cartridges of 400 ml
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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