Rapollo Resins

Technical datasheet

A-Pox 900 with B-Cure 32 medium

The epoxy is based on epoxy resin of Diglycidyl ether of Bisphenol-A + Diglycidyl ether of Bisphenol-F. It is modified with multifunctional reactive diluent in order to give low viscosity resin with improved adhesion to difficult surfaces. The epoxy has good mechanical strength and chemical resistance. Good resistance against crystalization, and it can be stored at ambient temperature at least 12 months.

Curing agent is a blend containing polyamines and cycloaliphatic type slightly modified thus achieving better Tg with lower temperature cure. To be stored at +15 degr.C

Typical applications:
Developed specially for vacuum infusion of composite parts.
A-Pox 900 can be cured with curing agent B-Cure 32 mixed with 100:32 pbw which gives mixed viscosity of 400-500 mPas at 25 degr.C having very good wetting- and process properties.

Typical Properties epoxy:

Epoxy Equivalent Weight (g/eq)	170-180
Viscosity (mPas / 25°C)	875 - 1100mPas
Density (g/cm^3 25°C)	1.15-1.16
Color (Gardner)	<2

Typical Properties curing agent:

AHEW	55-59
Viscosity (mPas / 25°C)	25-75 mPas
Density (g/cm^3 25°C)	0,98
Color (Gardner)	<4

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Mix-ratio: 100:32 pbw

Pot-life: 120-140 min – 200gr specimen

Properties neat resin sample:

Tg. 50degr.10h	67 – 73 degr.C
Tensile elongation to break	72 - 78 mPa
Tensile elongation to break	3,2 – 3,8%
Tensile modulus	3000-3300mPa
3-Point bending	88-92 mPa
3-Point bending mod.	1900-2200 mPa

Handing precautions:
Product may cause skin and eye irritation. In cases of skin contact wash immediately with soap and water. For eyes, flush with plenty of water for 15 minutes and seek medical attention immediately.

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