



YT-1040 Elastic Waterborne Polyurethane Resin

OVERVIEW

YT-1040 is an anionic aromatic polyurethane dispersion independently developed by our company. It offers good water resistance, toluene resistance, flex resistance and extensibility, with uniform foaming, a soft hand and a relatively smooth base surface — suitable for sofa and shoe-lining leather base, and usable as an impregnation resin.

KEY SPECS

Appearance	Milky white	Solid content	40 ± 2%
pH value	7.0 – 9.0	100% modulus	1.5 – 2.0 MPa
Tensile strength	20 – 30 MPa	Elongation at break	1000 – 1500%

KEY FEATURES

- ✓ Excellent water resistance and toluene resistance
- ✓ Outstanding flex resistance with good extensibility
- ✓ Uniform, fine foaming with a soft hand and smooth base surface

APPLICATIONS

- ✓ Sofa leather base production
- ✓ Shoe-lining leather base production
- ✓ Impregnation resin applications

APPLICATION NOTES

Foaming base process: add 20%–50% filler to the measured resin (ratio adjusted to the target hand), disperse thoroughly; add a suitable amount of foaming agent (3%–5%), foam to the target ratio and adjust viscosity to the proper range, then coat the prepared slurry onto the base fabric and dry to form. Impregnation process: dilute the resin solids to 10% or below, immerse the substrate, squeeze out excess liquid and repeat the impregnation–drying cycle several times until the required effect is achieved.

STORAGE

Store at 5–30 °C; avoid freezing, high temperature and direct sunlight. Shelf life: 6–12 months. Packaging 50 kg / 120 kg plastic drum