

## Villon 270S

### Thermoplastic saturated copolyester

#### INTRODUCTION

Applications: Our Villon 270S is a high-performance, linear, hydroxyl-terminated, high-molecular-weight saturated copolyester resin composed of linear polyols and polyacids through condensation polymerization. Due to the hydroxyl functional groups at the ends of their molecular chains, they can undergo cross-linking curing or chain extension reactions with isocyanate or amino resins. Villon resins possess exceptional high adhesion, excellent flexibility, strong abrasion resistance, and good chemical corrosion resistance. We have made remarkable improvements to the solubility and miscibility of Villon resins. The properties of Villon resins can be fully utilized in various industrial coatings, printing inks, adhesives, film surface treatments, and resin modification applications.

#### TYPICAL VALUES

Appearance	sheet-like solids
Tg(°C)	10
MW(GPC)	8000
Elongation at Break%	50
Colour, Gardner	2
Acid value,mg KOH/g	max. 1
Density g/cm <sup>3</sup>	1.05

#### APPLICATION

**Coating Applications:** High adhesion, superior to hydroxyl acrylics and epoxy resins. Exhibits broad adhesion to various thin film materials, as well as special surfaces such as oxidized metals and recoated paint films. Resistant to boiling, high tensile strength, and excellent chemical resistance after cross-linking and curing.

**Printing Inks:** IMD high-strength molding inks improve thermal shock resistance and elongation. Ideal for printing on metallic coatings or high-hardness surfaces!

**Resin Modification:** Applied to epoxy resin modification, polyurethane resins, and UV-curable resin systems to improve toughness and adhesion properties.

#### INTERMISCIBILITY

**Monomer:** Miscible with all common UV monomers.

**Solvent:** Miscible with esters, ketones, or aromatic solvents; insoluble in single alcohol solvents; soluble in mixed solvents containing alcohols and ethers.

**Polymer:** Highly compatible with polyesters, epoxy resins, polyurethanes, phosphate esters, and acrylates to meet formulation needs.

**packing: 25kg Each barrel**

*More detailed application references and MSDS are available upon request. ....*