

**Technical Data Sheet**  
**Hydrosize® U4-01**  
**Polyurethane Dispersion**

**Description:** Surfactant free, solvent free, hazardous air pollutant (HAP) free, odorless waterborne polyurethane dispersion

**Attributes**

- Good hydrolytic stability
- Small particle size
- Excellent adhesion
- Low modulus
- High elongation to break
- Good color and color stability
- Good shear stability

**Compatibility**

- Polyamide (Nylon)
- Polyesters (PBT, PET)
- Polypropylene
- Polycarbonate
- Poly(vinyl chloride) (PVC)
- Urethanes

**Applications**

- Fiber reinforcements
- Adhesives
- Coatings
- Textiles

<b>Typical Properties</b>	
Viscosity (cP)	50 - 1000
Non-Volatiles (%)	33 – 36
pH	6.5 – 8.5
Stabilization Mechanism	Anionic
Particle Size (µm)	< 1
Specific Gravity (g/mL)	1.05 – 1.15
Appearance	White, Opaque Liquid
Flash Point (°C)	N/A

**Technical Support:** Michelman scientists have extensive knowledge and practical experience with binders and sizings, their application to fibers, and their influence on composite properties. Please do not hesitate to request our assistance. The test methods used to determine the reported properties are available upon request.

**Storage:** To ensure maximum stability and properties this dispersion should be stored between 5°C (41°F) and 35°C (95°F). PREVENT FREEZING. The product should be stored indoors in tightly closed containers away from heat sources and sunlight. If frozen, warm to room temperature and mix well before using. All storage areas should conform to local fire and building codes. Hydrosize® U4-01 should be stored away from all sources of flame or combustion.

**Standard Package:** Non-returnable, polypropylene or lined fiber drums of 450 lbs. net weight.

**Safety:** Hydrosize® U4-01 contains no unreacted isocyanate. Read and understand the Material Safety Data Sheet before working with this product.

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