

**Hydrosize® U2-01**  
**Waterborne Polyurethane Dispersion**

**Description:** Solvent free, HAPs free (Hazardous Air Pollutant), waterborne polyurethane dispersion

**Attributes**

- Hydrosize’s highest strength PUD
- Excellent adhesion
- Moderate modulus
- High elongation to break
- Good color and color stability
- Good shear and pH stability

**Compatibility**

- Polyamide (Nylon)
- Thermoplastic Polyester (PBT, PET, etc.)
- PVC
- Urethane

**Applications**

- Fiber reinforcements
- Adhesives
- Coatings
- Textiles

<b>Typical Liquid Properties</b>	
Viscosity (cP)	50 - 1000
Non-Volatiles (%)	58 - 60
pH	6.5 – 8.5
Stabilization Mechanism	Anionic / Nonionic
Particle Size (µm)	< 3
Specific Gravity (g/mL)	1.05 – 1.15
Appearance	White Dispersion

<b>Typical Mechanical Properties</b>	
Tensile (psi)	4760
Modulus @ 100% (psi)	300
Modulus @ 300%	530
Elongation at break (%)	700
Shore A Hardness	60

**Technical Support:** Hydrosize® Technologies, Inc. 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® U2-01 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® U2-01 contains no unreacted isocyanate. Read and understand the Material Safety Data Sheet before working with this product.

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