

Nychem™ Specialty Emulsions cover an expansive line of Nitrile, Carboxylated Nitrile, Styrene-Butadiene, and Polybutadiene products and blends. Our polymers provide a combination of superior oil, grease and solvent resistance, toughness, and tear and abrasion resistance. These products are tailored to various applications based on monomer and surfactant ratios and the use of cross-linking agents. They vary in acrylonitrile content from low to high, with increases in oil, grease and solvent resistance and glass transition temperature, respectively. To further enhance toughness, abrasion and chemical resistance, the products can be vulcanized or external cross linking agents such as melamines, epoxies, phenolics, or metal complexes can be added. Product families enhanced with fatty acid or rosin acid-based surfactants exhibit superior water resistance while those with synthetic surfactants exhibit superior mechanical stability. Non-carboxylated products produce the best caustic resistance.

*Specific properties for Nychem™ Poly4000 are listed below.*

**PRODUCT DESCRIPTION**

- Polybutadiene Homopolymer
- Synthetic Anionic Emulsifier

**TYPICAL PROPERTIES**

|                            |          |
|----------------------------|----------|
| pH                         | 8 - 9    |
| Total Solids (%)           | 44 - 46  |
| Brookfield Viscosity (cps) | 300 max. |
| Tg (°C)                    | -82      |
| Weight per Gallon (lb/gal) | 8.3      |

**FEATURES**

- Controlled particle size
- Suitable for transparent uses
- North American production

**STORAGE/HANDLING**

Product is unstable after freeze-thaw cycle. Recommend transportation and storage above 60°F. If product is stored, unopened at 60-90°F, then optimal performance has been reported up to six months from ship date. Read the product Safety Data Sheet before handling, storing, or using.

**APPLICATIONS**

- Rubber core for advanced core-shell polymer products
- Impact-modified polymers
- Specialty adhesives

**PACKAGING/DELIVERY**

Available in drums, totes and bulk shipments.

*To obtain samples, discuss your application, or gather more details on Nychem™ Poly4000, or any other Nychem™ product, please log onto our website at [www.emeraldmaterials.com](http://www.emeraldmaterials.com), or contact us directly at 888.889.9150.*

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