

Repoly 300HL

INCI Name:

Acrylates Copolymer

CAS Number: 25035-69-2

General Information:

Repoly 300HL is an excellent rheological modifier and suspension stabilizer. Repoly 300HL has the same performance as most Acrylates Copolymer when it is neutral. Repoly 300HL can give excellent suspension stability and excellent thickening performance in transparent formula with high surfactant content. At the same time, Repoly 300HL can produce synergistic thickening effect with salt in surfactant system, so as to produce more effective suspension, stability and thickening performance. The advantage is that Repoly 300HL can still maintain its excellent performance when the system is alkaline, so it can be used for neutral pH value formula system and alkaline formula system.

Specification:

Item	Specification
Appearance (25°C)	Milky white emulsion
Solid content (105°C, 2.0g, 3h, %)	34.0-36.0
pH value (25°C)	2.1-3.8
Viscosity (mPa.s, 1% solids aqueous solution, 25°C, M4V10)	4000-12000
Residual ethyl acrylate (mg/kg) max	1.0

* These values indicate typical specification; they are not intended to be used as product specifications.

Benefits:

- The pH value is applicable to various alkaline formulations.
- Mildly cross-linked acrylic acid (ester) copolymer, no jelly phenomenon in the formula, and good low-temperature fluidity.
- Excellent for suspending silicone, zinc pyrithione, powder and other insoluble ingredient in shampoo.
- Provides stabilizing, thickening and co-emulsifying functions.
- Applicable for transparent system.
- Works synergistically with surfactant and salt.
- Enhance the visual impact of pearling agent and improve the stability dramatically.

Application:

- Household cleaning and care products
- Shampoo, bath and other cleaning products
- Pearl shampoo and detergent
- General transparent products and transparent suspension products
- Polymer containing silicone oil conditioner products
- Facial care products
- Soap based cleaning products

Formula Guidelines:

Usage in shampoo, shower gel and other cleaning products:

Dilute Repoly 300HL with water at 1: 1, add it into the formula and stir it evenly, then add organic or inorganic alkali to adjust the pH of the formula, add other components in the formula, stir it evenly, and adjust the pH and viscosity to the required range.

Recommended dosage: 5-8%, more than 7% is

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recommended for the formulation of suspended particles.

Storage & Handling:**Standard Packing:**

200kg / drum

Storage:

- (1) The temperature during storage and transportation must be controlled at 5-35°C.
- (2) Ice must be strictly avoided, which will lead to demulsification of the product and cannot be used any more.

Shelf life: 24 months