

Repoly 1020

INCI Name:

Acrylates/C10-30 Alkyl Acrylate Crosspolymer

CAS Number: 96827-24-6

General Information:

Repoly 1020 is a hydrophobically modified crosslinked acrylate copolymer. It acts as high-efficient & low-dosage thickener and suspending agent as other traditional carbomer resin, also provides electrolyte tolerance and unique sensory benefits in formulas. Its low dispersion viscosity before neutralization, making it easy to disperse, transport and process. It also can be used in systems with moderate surfactant content, making it an ideal choice for many applications.

Specification:

Item	Specification
Appearance(25°C)	Fluffy, white powder
Loss on drying (%) max	2.0
Wetting Time (3% aqueous solution, 25°C, minutes) max	25
Viscosity (20 r/ min, 25°C, mPa.s)	(1% aqueous solution) 47000-77000 (1% aqueous solution+1%NaC 4000 1) min
Transmittance (% , 1% aqueous solution) min	85
Bulk density (g/100ml) min	25.0
Residual acrylic acid (%) max	0.25
Residual Ethyl Acetate / Cyclohexane (%) max	0.45

Lead (Pb, ppm) max 10

Cadmium (Cd, ppm) max 5

Arsenic (As, ppm) max 2

Mercury (Hg, ppm) max 1

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

Benefits:

- Low dispersion viscosity, rapid wetting and swelling time
- High-efficient thickening, suspending and stabilizing ability at low dosage
- High clarity
- Excellent electrolyte tolerance
- Compatibility with all kinds of surfactants

Application:

- Transparent hydroalcoholic gel
- Lotion and cream
- Hair styling gel
- Shampoo
- Body wash

Formula Guidelines:

Typically used at a level of 0.2-1.5%.

Cautions:

Following operations are forbidden, otherwise result in loss of thickening ability:

- Lasting stir or high-shear stir after neutralization
- Lasting UV irradiation

Storage & Handling:

Standard Packing: 20kg/carton

Storage: Keep in Cool, Dry, Ventilated and Lightless Place.

Shelf life: 24months

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