

TC-CARBOMER 351

INCI NAME

CARBOMER

Description

TC-CARBOMER 351 is a crosslinked acrylic polymer with strong hygroscopicity, acting as high-efficient thickener and suspending agent with outstanding stability and excellent clarity. TC-CARBOMER 351 can be used in products including clear gels, topical lotions and creams. They primarily function as efficient thickeners and binders and provide suspension of non-soluble actives or excipients. Transparent hydroalcoholic and sanitizing gels can be manufactured based on TC-CARBOMER 351 for its good compatibility with ethanol.

Specification

| Parameter | Value |
|---|---|
| Appearance | Fluffy, White Powder |
| Viscosity (mPa.s, 20 rpm at 25°C, 0.5% Neutralized Solution, dry basis) | 20000-42000 |
| Clarity (%Transmission, 0.5% Neutralized Solution 420 nm light) | Water solution ≥85 Hydroalcoholic solution ≥85 |
| Residual Ethyl Acetate / Cyclohexane (%) | ≤0.45 |
| Residual acrylic acid (%) | ≤0.25 |
| Loss on drying(%) | ≤2.0 |
| Bulk Density (g/100 mL) | 19.5-23.5 |

| | | |
|--------------|-------------------|-----|
| Heavy Metals | As (ppm) | ≤1 |
| | As+Hg+Sb+Pb (ppm) | ≤10 |

These values indicate typical specifications, they are not intended to be used as product specifications.

Properties

Efficient thickeners at low usage levels
 Suspending agent for non soluble actives or excipients
 Improve long term stability of lotion, cream, and gel systems
 Compatible with ethanol or other alcohols

Applications

Clear hydroalcoholic sanitizing gel; Topical lotions, creams and gels.

Formula Guidelines

0.2-1.0%

Cautions

Following operations are forbidden, which can reduce the loss of thickening ability:

- Lasting stir or high-shear stir after neutralization
- Lasting UV irradiation
- Combine with electrolytes

Storage & Handling

Standard Packing: 20kg/drum

Storage: Keep in cool, dry, ventilation and lightless place.

Shelf life: 24 months

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