

TC-CARBOMER 381

INCI NAME

CARBOMER

Description

TC- CARBOMER 381 is a crosslinked polyacrylate polymer with strong moisturizing ability, acting as a low-dosage thickener and suspending agent. It's a toxicologically preferred polymer synthesized in a co-solvent mixture of ethyl acetate and cyclohexane. And it can be used in moderately ionic systems.

Specification

Parameter	Value	
Appearance	Fluffy, White Powder	
Viscosity: (mPa.s) (20 rpm at 25°C, Neutralized Solution)	0.2%	2000-7000
	0.5%	4000-11000
Solution Clarity (%Transmission, Neutralized Solution 420 nm light)	0.2% Water Solution	≥85
	0.2% Ethanol Solution	≥70
	0.5% Water Solution	≥85
Residual Ethyl acetate/cyclohexan (%)	≤0.45	
Residual acrylic acid (%)	≤0.25	
Loss on drying (%)	≤2.0	
Bulk Density (g/100 mls)	19.5-23.5	
Heavy Metals	As (ppm)	≤2
	Pb+As+Hg+Sb (ppm)	≤10

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

Properties

Outstanding long flow property

High clarity

Resist temperature effect to viscosity

Applications

Topical lotions, creams and gels

Clear gels

Moderately ionic systems

Formula Guidelines

0.1-1.5%

Cautions

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

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