



SURECEL™ 467 **All-Acrylic Foam Cell Promoter**

For Cellular Vinyl Applications

Regional Availability

- North America
- Latin America

Description

SURECEL™ 467 Foam Cell Promoter is a foam cell promoter formulated to offer greater foam expansion. Ultra-high molecular weight enables greater expansion at equal use levels and equivalent density. For free foam applications where ¾ to 1 ½" sheet is produced, 6.5 – 10 phr loading is recommended. This product offers high efficiency, low odor and is less dusty than other products in the market.

Applications

SURECEL™ 467 Foam Cell Promoter can be used in either calibrated profile processes where maximum calibrator filling is necessary or free foam sheet where lower additive loading is desired.

Benefits

SURECEL™ 467 Foam Cell Promoter provides lowest use cost and the highest expansion for free foam trim.

Typical Properties

- White free flowing powder
- 0.45 – 0.47g/cc bulk density

Performance

Foaming performance was evaluated in the following compound

Dow Formulation for lab evaluations:

Ingredient	phr
PVC (Formolon F614)	100.0
Low monomethyltin TG	2.5
Processing Aid	7.0
PARALOID K 175	2.0
Lube package	2.5 – 3.0
Calcium Carbonate	10.0
Titanium Dioxide	5.0
Chemical Blowing Agent	0.7

Laboratory evaluation indicates the relative efficiency of SURECEL™ 467 Foam Cell Promoter either as a means of increasing board thickness at equal loading or lowering the use level for more standard thickness products. These performance relationships translate to full production.

Density in the laboratory does not change. In the plant differences in density will be observed dependent on sheet thickness, die configuration and loading level.

Property	PARALOID™ K-445	SURECEL™ 466	SURECEL™ 467
Relative Foam Expansion at Fixed Additive level of 7.0 phr (rod cross sectional area)	100	112	124
Melt Pressure (Bar)	143	155	163
Extruder Torque (N-m)	68	72	75
Relative Foam Density	100	100	100
Molecular Weight	+	++	+++
Relative Use Level for Equivalent Expansion	10	7.5	6.5

Regulatory Information

If your application includes a sensitive application such as food contact or drinking water requirements or if you need other regulatory information, please contact your local Dow representative.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Handling Precautions

Before using this product, consult the Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat, resulting in a possible combustion hazard, particularly when plastic tanks are used.

Avoid high concentrations of dust in air and accumulation of dust on equipment. An airborne dust of this material can create a dust explosion. When handling and processing this material, local exhaust ventilation may be required to control dust and reduce exposure to vapors. To prevent dust explosions, employ bonding and grounding for operations capable of generating static electricity. Dispose by placing powder or pellets in airtight bags.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations.

Contact your Dow Plastics Additives Technical Representative for more information.

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- use as a critical component in medical devices that support or sustain human life; or
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