

**PARALOID™ K-435 Processing Aid**
PARALOID™ K-435G Processing Aid**Description**

PARALOID™ K-435 and PARALOID™ K-435G are very high molecular weight polymers, used as Processing Aids in foamed PVC formulation. PARALOID™ K-435 and PARALOID™ K-435G Processing Aids have been developed for high quality foamed PVC applications.

Applications

PARALOID™ K-435 and PARALOID™ K-435G Processing Aids are recommended in foamed PVC formulations, mainly being processed by co-extrusion for producing foamed core pipes.

Regional Product availability

- Europe Middle East Africa India
- Asia Pacific

Typical properties

PARALOID™ K-435 and PARALOID™ K-435G Processing Aids are free-flowing powders.

| | PARALOID™ K-435 | PARALOID™ K-435G |
|---|-----------------|------------------|
| Physical appearance | White powder | White powder |
| Bulk density aerated (g/cm ³) | 0.35-0.45 | 0.45-0.65 |
| Volatiles (% max) | 1.0 | 1.0 |
| Fines level, through 45 micron (%) | 25 | 25 |

Key attributes

- Promote fusion and increase gelation level
- Improve melt homogeneity
- Increase melt strength
- Increase melt elongation
- Increase melt elasticity

These key attributes result in

- High melt expansion
- Low density PVC foam
- Reduced melt fracture and improved surface finish (smoother surface)

Rheology and Processing

The use of very high molecular weight processing aid has a dramatic effect on the melt rheology of PVC formulations. PVC foam formulations display very high level of elasticity and are remarkably temperature and shear rate dependent. The formulation and die design will have a significant effect on the results obtained.

Product Packaging

The standard package is either a unitized pallet of 20-25 kg bags or 500-900 kg super sacks/big bags/FIBC bags.

Please consult a Dow representative for specific package availability for this product.



Technical Data Sheet

Quality management system

The Dow Chemical Company (Dow) and its subsidiaries have implemented a comprehensive quality management system pursuant to Good Manufacturing Practices (GMP) and various quality management standards including ISO 9001. An overview of **The Dow Quality Management System Manual** can be obtained at the following Internet web site – <http://www.dow.com/en-us/about-dow/our-company/beliefs-and-culture/quality-culture>. As part of that system, the Dow Plastics Additives business maintain ISO 9001 registration for most of our manufacturing plants. A copy of these certificates available upon request.

Storage and handling precautions

Store unopened in original packaging at ambient temperature. If material is opened, it should not be left exposed and should be used within one month. When stored correctly in the original packaging, the shelf life is 3 years from date of manufacture.

Before using this product, consult the Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage. Contact Dow for copies of the SDS and for more information on this product. Information contained in a TDS document cannot substitute a SDS.

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.

Medical Applications Restrictions

Dow prohibits sale into certain medical applications. Please check with Dow if you believe your application could be in violation of this policy.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. The customer is solely responsible for determining the suitability of the Dow product for the uses contemplated by customer. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow and available online at www.dow.com.

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.

Contact information:

If you should have any questions regarding this notice, please contact your local Dow Representative or www.dow.com/contact

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