



Technical Data Sheet

PARALOID™ K-400P Processing Aid

Description

PARALOID™ K-400P acrylic processing aid is a high molecular weight processing aid designed for PVC foam applications, such as partitions, advertising boards, window sills, furniture profiles, ceilings, and foam core pipes. It is also applicable for deep draw thermoformed sheet, vinyl tiles and electric cables.

PARALOID™ K-400P Processing Aid is applicable for all of PVC foam processes, such as free foam,

Celuka, co-extrusion and modified processes.

PARALOID™ K-400P Processing Aid is based upon proven DOW acrylic processing aid technology.

Applications

- Window Profiles
- Pipe and fittings
- PVC foam

Regional Product availability

Asia Pacific

Typical properties

PARALOID™ K-400P Processing Aid is a free-flowing powder.

PARALOID™ K-400P	
Physical appearance	White Powder
Bulk density aerated (g/cm ³)	0.40±0.10
Volatiles (% max)	1.0
Fines level, on 850 micron (% max)	1.0
Fines level, through 45 micron (% max)	15.0

Key attributes

- Low density for vinyl foam product
- Uniform cell structure
- Excellent surface finish
- Outstanding melt strength enhancement.

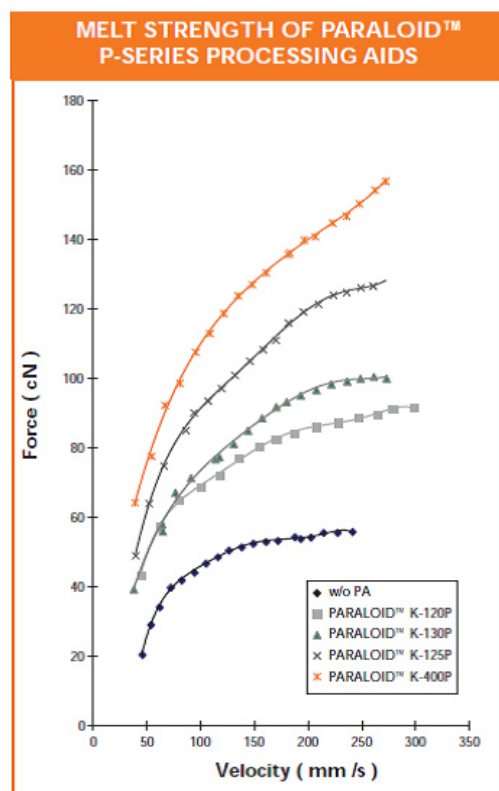


Technical Data Sheet

In PVC Foam Application

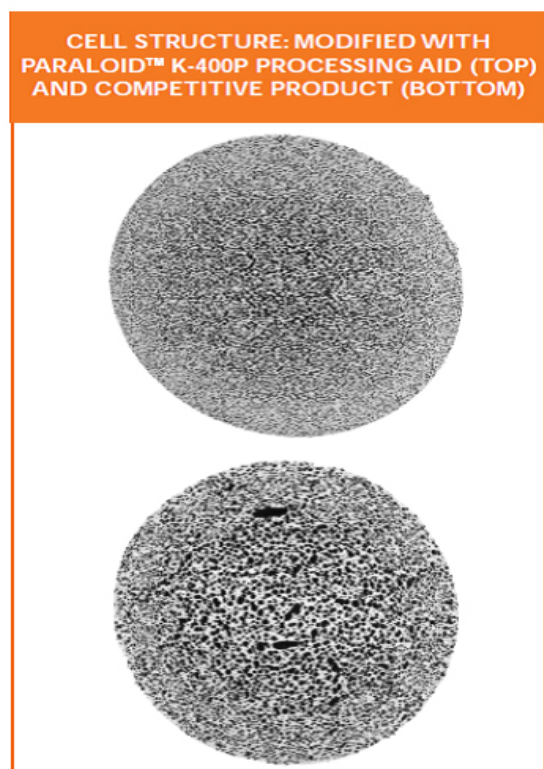
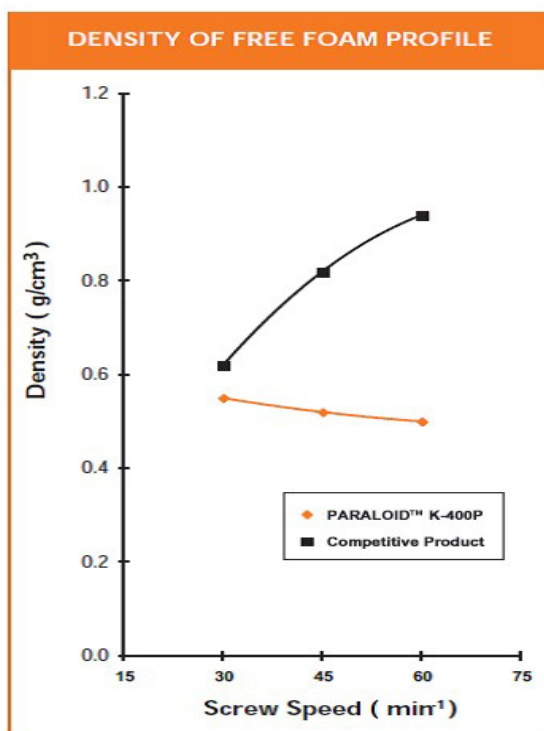
PARALOID™ K-400P Processing Aid gives the highest melt strength among the PARALOID™ P-series Processing Aids. The higher melt strength allows more gas to be retained and prevents coalescence of cells. This provides more uniform cell structure, lower density, and a better surface finish.

EXPERIMENTAL	
Melt Tension Measurement	Comparison of Density, Cell Structure, and Surface Finish
Formulation SPVC K58 = 100 weight parts Methyl tin stabilizer = 1.8 Glycerol mono oleate = 0.8 Ester wax(Tm 55°C) = 0.5 PARALOID™ K-175P = 0.5 PARALOID™ K-series Processing Aids=3.0 or 0	Formulation SPVC K57 = 100 weight parts Dibasic lead phosphite = 3.0 Dibasic lead stearate = 0.5 Neutral lead stearate = 0.5 Calcium stearate = 0.6 Diacarboxylic acid ester = 1.0
Equipment Brabender Plasticorder PL-2000 Extrusion System Melt Tension Meter	PARALOID™ K-175P = 0.5 PARALOID™ K-400P or Competitive product = 5.0 Equipment Brabender Plasticorder PL-2000 Extrusion System Epoxidized Soya Bean oil = 1.0 Oxidized PE wax = 0.3 Calcium carbonate = 5.3 Titanium dioxide = 2.0 Modified azodicarbonamide = 0.5





Technical Data Sheet



Product Packaging

The standard package is either a unitized pallet of 20 kg bags or 500 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

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

©™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.
© 2020 The Dow Chemical Company. All rights reserved.