Technical Data Sheet

PARALOID™ BTA-717 Impact Modifier

Description

PARALOID™ BTA-717 is an MBS polymer with a core-shell structure, used as Impact Modifier in transparent PVC formulations. It provides very good optical properties such as high clarity and high crease whitening resistance, as well as good impact strength to PVC end-use products.

Applications

PARALOID™ BTA-717 Impact Modifier is recommended to be used in PVC formulation designed for producing transparent films and sheets by calendering or extrusion, for non-weatherable packaging and other technical applications, which require high clarity, high crease whitening resistance and good impact resistance.

PARALOID™ BTA-717 Impact Modifier can also be used in PVC formulation designed for producing bottles/containers by extrusion blow molding.

Regional Product availability

- Global

Typical properties

Produced according to the "Spheroid" isolation process, PARALOID™ BTA-717 Impact Modifier is a low dust and excellent free flowing powder giving no compaction and minimizing risk of dust.

Physical appearance	White powder
Bulk density aerated (g/cm^3)	0.37-0.47
Volatiles (% max)	1.0
Fines level, through 45 micron (%)	5.0

Key attributes

- **High clarity, very low haze**
- **High crease whitening resistance**
- **Good impact strength**

Optical properties

The data below have been generated in tin stabilized PVC formulation for packaging applications. Addition level of PARALOID™ BTA-717: from 8 to 14phr.
The formulations were processed on Collin two-roll mill equipment, combined with the use of hot press for producing 3mm thick films plates used for measured values shown

Addition level (phr)	8	10	12	14
Haze on 3 mm calendered films (%)	3.8 ± 0.1	3.2 ± 0.1	3.3 ± 0.1	3.4 ± 0.1
Total light transmission (%)	84	85	85	86
Crease-whitening resistance rating* * 1 = no whitening, 10 = 100% white opacity		4		

Impact resistance performance

Data below have been generated in tin stabilized PVC formulation for packaging applications. Addition level of PARALOID™ BTA-717: from 8 to 14phr.

Notched-Izod Impact strength has been measured on 3mm plates at 23°C, according to ISO 180/A Standard.

Addition level (phr)	8	10	12	14
Notched-Izod Impact strength (kJ/m²)	62 ± 4	62 ± 3	61 ± 2	63 ± 4

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.

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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