Technical Data Sheet

PARALOID™ EXL-2600JE Impact Modifier
PARALOID™ EXL-3600JE Impact Modifier

Description

PARALOID™ EXL-2600JE is an MBS core-shell impact modifier designed to improve impact resistance of Polyoxymethylene (POM) compounds also commonly named Polyacetal.

PARALOID™ EXL-2600JE Impact Modifier is supplied as a free-flowing powder. When supplied as dust-free pellets it is named PARALOID™ EXL-3600JE.

Applications

POM provides excellent wear resistance, high modulus, good chemical resistance and dimensional stability; thus, it is used in a wide range of applications produced by injection-molding and extrusion. There is a wide range of POM product grades used in several industry segments, from automotive to medical applications. However, POM displays poor low temperature impact strength, which limits its potential use in high performance applications. Furthermore, POM is sensitive to degradation during processing, yielding potential release of undesirable formaldehyde. To answer the need of impact strength at low temperature and overcome the degradation during processing, PARALOID™ EXL-2600JE Impact Modifier and PARALOID™ EXL-3600JE Impact Modifier provides POM compounds with an excellent balance of properties, compared to most alternative modifiers available on the market.

Regional Product Availability

- Global

Typical Characteristics

PARALOID™ EXL-2600JE Impact Modifier is supplied as free-flowing powder.
PARALOID™ EXL-3600JE Impact Modifier is supplied as dust-free pellets.

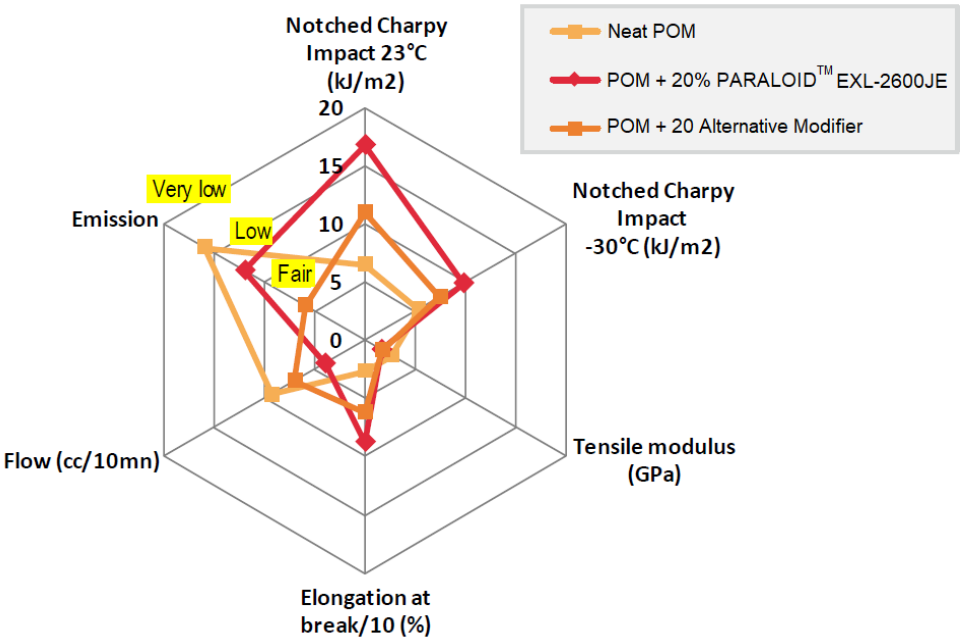
	PARALOID™ EXL-2600JE Impact Modifier
Physical appearance	White Powder
Volatiles (% max)	≤1.0
	PARALOID™ EXL-3600JE Impact Modifier
Physical appearance	White Pellets
Volatiles (% max)	≤1.0

Key attributes

- Excellent impact performance at room and low temperatures
- Good welding line strength
- Low mould deposits
- Low formaldehyde emissions
- Excellent colorability and surface finish

Product Performances

The graph below illustrates the benefits of compounding PARALOID™ EXL-2600JE Impact Modifier into POM polymers on mechanical properties at ambient and very low temperatures, without impairing the organic emissions compared to other modifiers. Additional benefits are also observed on secondary properties such as elongation at break and retention of tensile modulus. PARALOID™ EXL-2600JE Impact Modifier will also yield improved retention of mechanical properties during heat ageing. A reduced melt flow is however observed, as often, when blending a rubbery component into a thermoplastic matrix.



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