



PARALOID™ EXL-2620 Impact Modifier

Description

PARALOID™ EXL-2620 Impact Modifier is a general-purpose MBS core-shell impact modifier. It has a cross-linked poly (Butadiene/Styrene) core with a grafted poly-methyl methacrylate shell. This core-shell structure allows the product to disperse as discrete particles in the matrix. It will not dissolve in solvents or melt.

Applications

PARALOID™ EXL-2620 Impact Modifier can improve impact properties of following engineering resins: Polycarbonate (PC), Polyesters (PET, PBT). and their blends (PC/PBT, PC/ABS, PC/PET). PARALOID™ EXL-2620 finds utility in a variety of conversion processes after compounded with engineering resins, including extrusion, injection molding, blow molding, and thermoforming.

Regional Product availability

- Asia Pacific

Typical properties

PARALOID™ EXL-2620 Impact Modifier is supplied as a free-flowing powder.

PARALOID™ EXL-2620	
Physical appearance	White powder
Bulk density aerated (g/cm ³)	0.350 – 0.450
Volatiles (% max)	≤ 1.00%
Fines level, through 45 micron (%)	≤ 10.0%

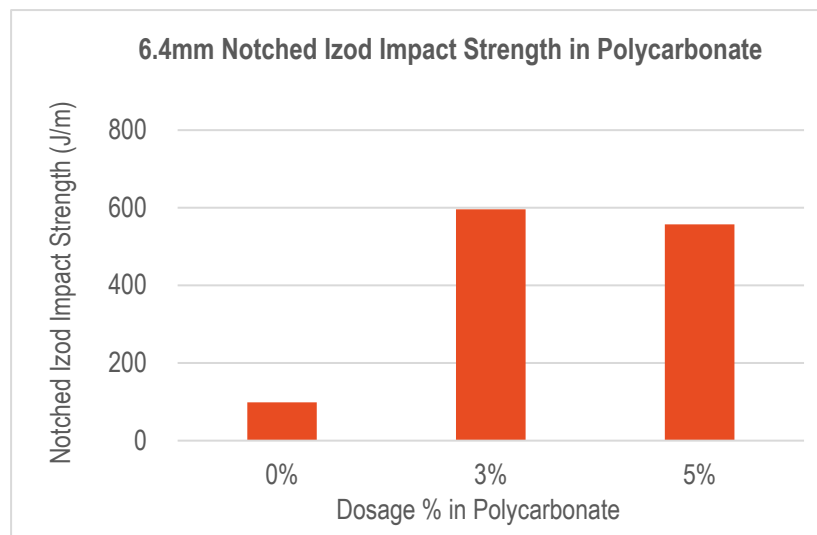
Key attributes

- Excellent improvement of impact resistance of engineering resin.
- Few influences on other mechanical properties, such as modulus and heat distortion temperature.

Product performance

Toughness of Polycarbonate

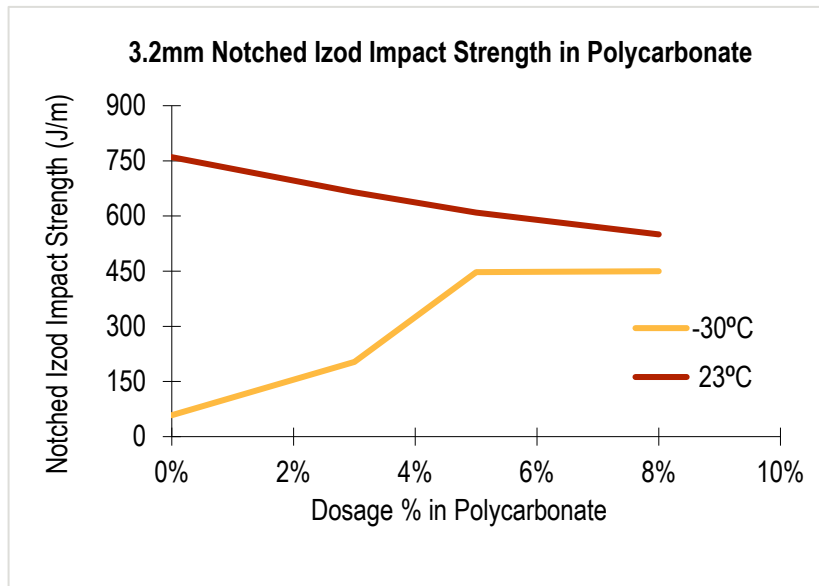
Notch sensitivity and thick wall brittleness of polycarbonate can be significantly improved by addition of PARALOID™ EXL-2620 Impact Modifier.





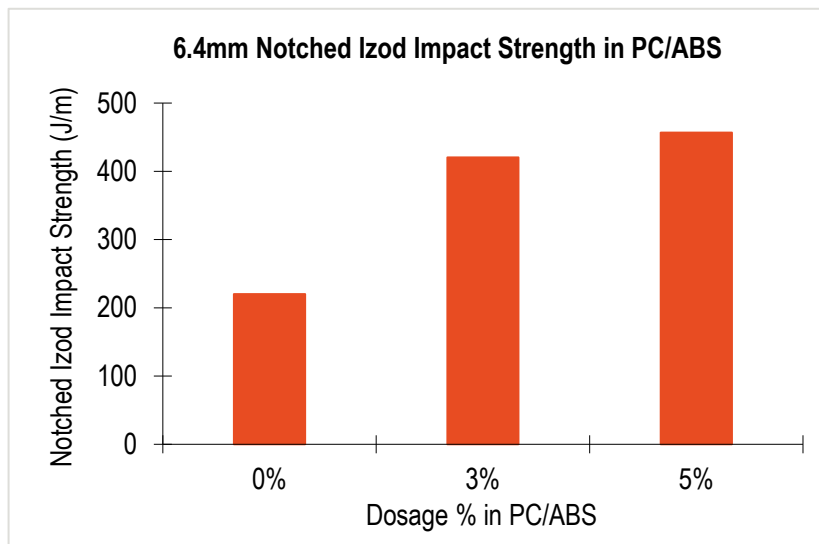
Product performance (continued)

The toughness of Polycarbonate can be improved also at low temperature.



Toughness of PC/ABS Blends

While the toughness of PC/ABS can be upgraded by modification by PARALOID™ EXL-2620 Impact Modifier, better polymer phase compatibility and less shear surface marks can also be obtained by using the modifier.

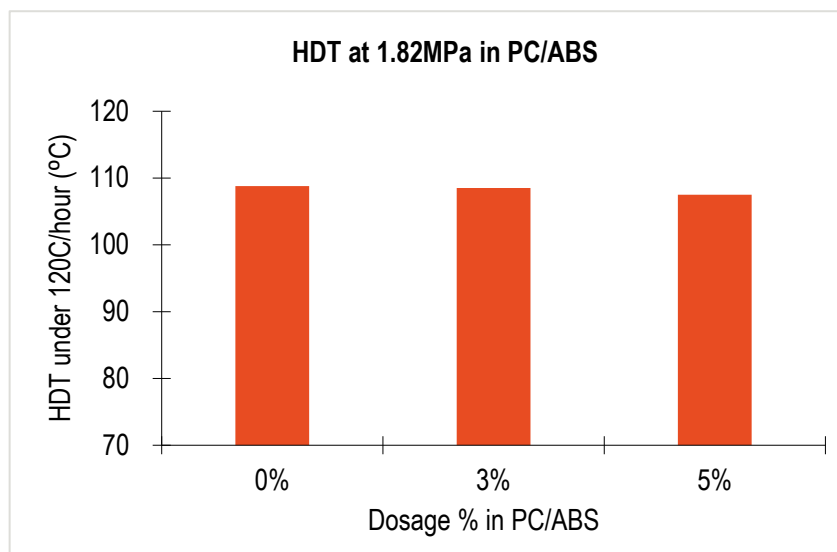




Technical Data Sheet

Product performance (continued)

Heat Distortion Temperature is not altered by the addition of PARALOID™ EXL-2620 Impact Modifier.



Recommended Use Levels

The use level will depend on the required performance in a particular matrix. Please refer to previous charts for guidance or call your Dow technical service contact.

Processing information

PARALOID™ EXL-2620 Impact Modifier is particularly easy to disperse into polycarbonate and in polycarbonate base blends when compounded on twin-screw extruders. It only slightly influences the rheology of the polymers. When molding modified polycarbonate and its blends, minor adjustments of the injection molding parameters may be necessary.

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.

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.



Technical Data Sheet

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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