



PARALOID™ EXL 2388 (Powder) Acrylic Impact Modifier

For Polycarbonate, Polyesters and their Blends

Regional Product Availability

Asia-Pacific

Description

PARALOID™ EXL 2388 modifier is a general purpose all acrylic core-shell impact modifier providing an excellent balance of impact resistance and modulus retention in a variety of engineering resins. Because of the core-shell structure and acrylic composition, the improvement in impact performance is obtained with only minor effect on other mechanical properties, such as heat distortion temperature, and with no adverse effect on weatherability. Improved impact properties can be expected in the following engineering resins; polycarbonate (PC), polyesters (PET, PBT), blends of these thermoplastics and glass fiber reinforced systems.

Excellent Dispersion

PARALOID™ EXL 2388 modifier has a cross-linked poly (butyl acrylate) 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.

Conversion Process

PARALOID™ EXL 2388 modifier finds utility in a variety of conversion processes typically encountered for engineering resins, including extrusion, injection molding, blow molding, and thermoforming.

Compounding and Injection Molding

PARALOID™ EXL 2388 modifier is particularly easy to disperse into polycarbonate and polyester/PC blends when compounded on twin-screw extruders. It only slightly influences the rheology of the polycarbonate and its blends. When molding modified polycarbonate and its blends, minor adjustments of the injection molding parameters may be necessary.

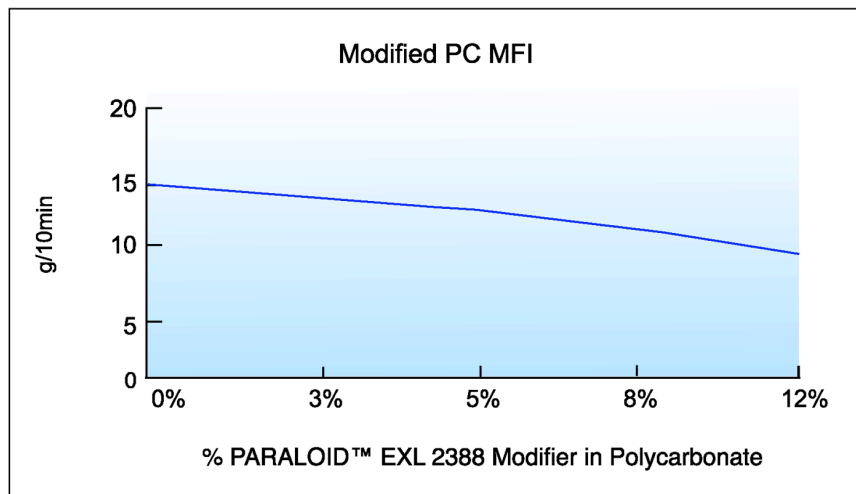
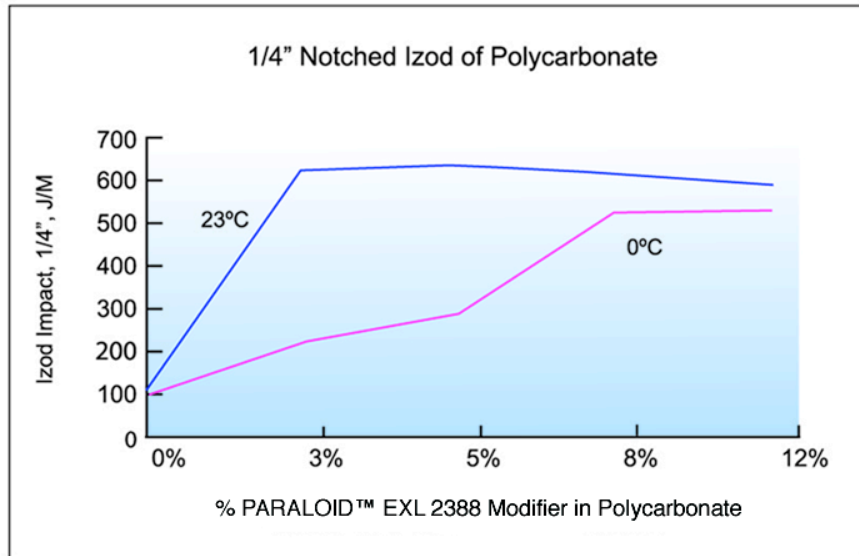
Physical Property

Appearance:	White powder
Bulk density:	0.53 ±0.10 g/ml
Volatile matter:	≤1.0%

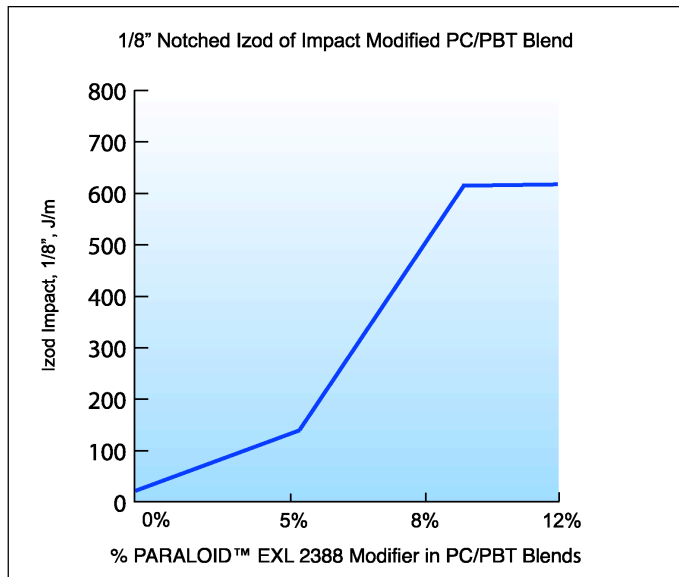
Impact Performance

Toughness of Polycarbonate

The toughness of polycarbonate can be significantly improved at low temperatures by the addition of PARALOID™ EXL 2388 without significantly impairing other thermo-mechanical properties or melt flow.



Toughness of Polycarbonate/PBT Blends



PARALOID™ EXL 2388 is an efficient impact modifier for PBT resins as well as PC/PBT blends as shown in the above graph.

Handling Precautions

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

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.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Plastics Additives Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

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. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

Contact:

North America: 1-800-441-4369
Asia: +800 7776-7776
Europe: +800-3-694-6367
Latin America: +55-11-5188-9000
<http://www.dow.com/additives>

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PARALOID™ EXL 2388 (Powder) Acrylic Impact Modifier / Plastics Additives

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