



PARALOID EXL™ 2300/3300 Impact Modifier
General Purpose UV and Heat Resistant
Impact Modifier

Application in Polycarbonate

Regional Product Availability

Europe

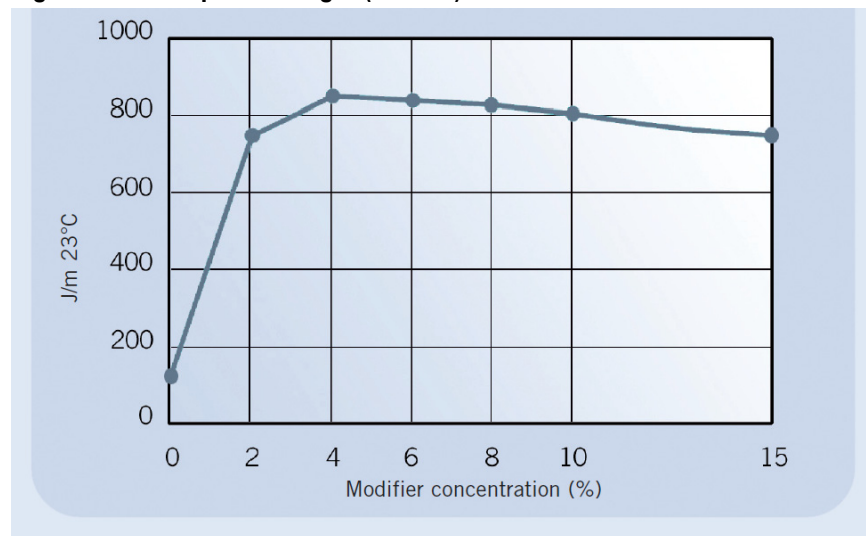
Introduction

PARALOID EXL™ 2300/3300 Impact Modifier is an all-acrylic core/shell impact modifier based on butyl-acrylate rubber. It provides high impact strength at temperatures as low as -10°C and has an inherently good heat and UV stability. Other benefits include excellent part surface finish with a good retention of part rigidity.

Impact Strength of Polycarbonate at 23°C

PARALOID EXL™ 2300/3300 increases the toughness of Polycarbonate to super-tough performance at a modifier loading as low as 3%, even in thick sections as shown here.

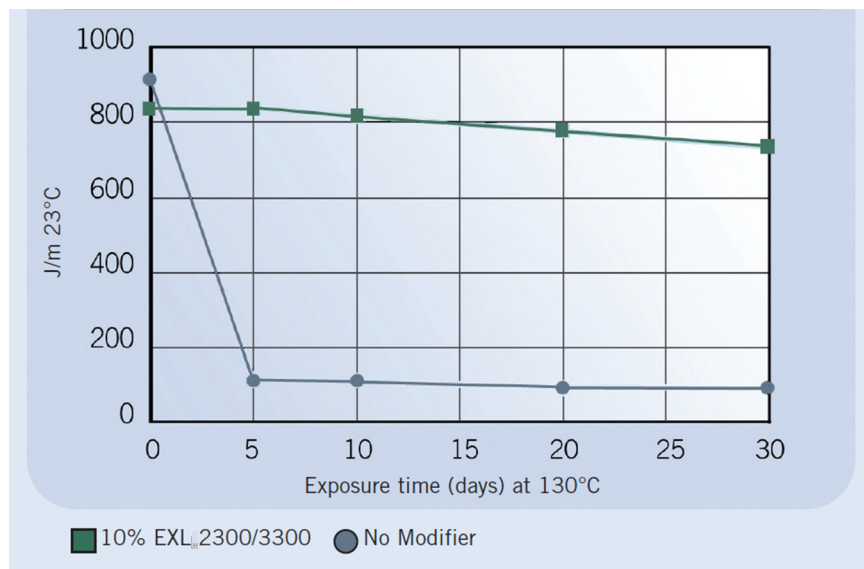
Figure 1. Izod Impact Strength (6.4 mm):



Retention of Properties after Ageing

PARALOID EXL™ 2300/3300 significantly increases the heat stability of Polycarbonate, and enhances the impact after ageing.

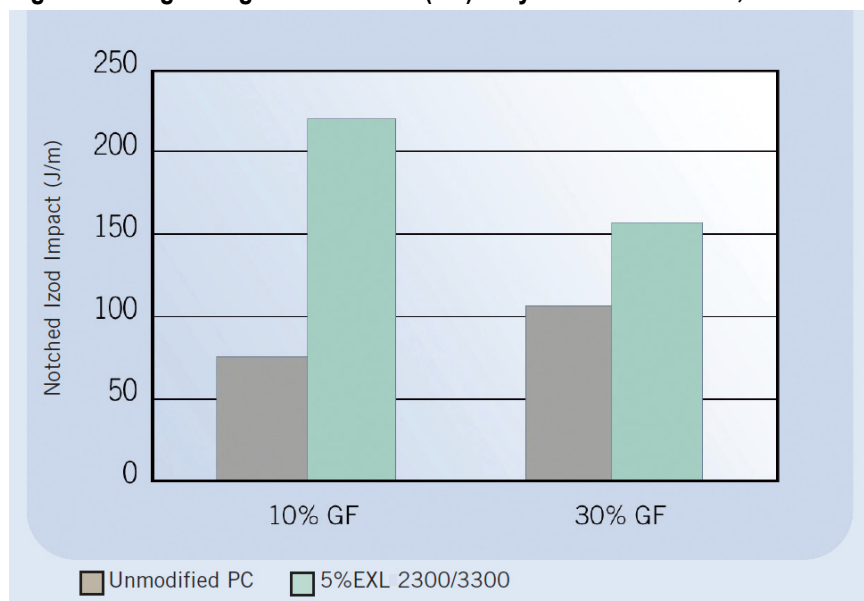
Figure 2. Izod Impact Strength after Exposure (3.2 mm):



Impact Strength in Glass Filled PC

An addition level of just 5% of PARALOID EXL™ 2300/3300 improves the impact strength of glass filled Polycarbonate.

Figure 3. Toughening of Glass filled (GF) Polycarbonate 3.2 mm, 23°C:



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

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: 1-800-447-4369
Asia: +800-7776-7776
Europe: +800-3-694-6367
Latin America: +55-11-5188-9000
<http://www.dow.com>

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