Dow Packaging & Specialty Plastics

Product Data Sheet

# FUSABOND™ E205

## Functional Polymer

### General Information

| | |
|---|---|
| Product Description | FUSABOND™ E205 is an anhydride modified high density polyethylene. |

### Status

| | |
|---|---|
| Material Status | Commercial: Active |

### Typical Characteristics

| | |
|---|---|
| Composition | Ultra High% By Weight Maleic Anhydride<br>Graft levels are defined as:<br>Low < 0.2%; Medium 0.2-0.5%; High 0.5-1.0%; Ultra high > 1.0% |
| Applications | ~ Compatibilizer.<br>~ Adhesion promoter between polyolefins and metal, cellulose and glass. |

### Typical Properties

| Physical | Nominal Values | Test Method(s) | |
|---|---|---|---|
| *Density ( ) | 0.960 g/cm³ | ASTM D792 | ISO 1183 |
| *Melt Flow Index ( 190°C/2.16kg ) | 2.0 g/10 min | ASTM D1238 | ISO 1133 |
| **Thermal** | **Nominal Values** | **Test Method(s)** | |
| *Melting Point ( DSC ) | 130 °C ( 266 °F ) | Dow Method | |
| Vicat Softening Point ( ) | 129 °C ( 264.2 °F ) | ASTM D1525 | ISO 306 |

### Processing Information

| | |
|---|---|
| *Maximum Processing Temperature | 285 °C ( 545 °F ) |

| | |
|---|---|
| Regulatory Information | For information on regulatory compliance within or outside the U.S.A., consult your local Dow representative. |
| Safety & Handling | For information on appropriate Handling & Storage of this polymeric resin, please refer to the material Safety Data Sheet.<br><br>A Product Safety Bulletin, material Safety Data Sheet, and/or more detailed information on extrusion processing and/or compounding of this polymeric resin for specific applications are available from your Dow representative. |

**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.**

**Medical Applications Policy**

**Any and all medical application use of Dow materials, whether a device, a component, or any type of primary or secondary packaging of a medically related object or substance, needs to be reviewed and approved by Dow before any Dow material can be tested in such application.**

**Dow requests that customers considering use of Dow products in medical applications notify Dow so that appropriate assessments may be conducted. Dow does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Dow product is safe, lawful, and technically suitable for the intended use. DOW MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY DOW PRODUCT FOR USE IN MEDICAL APPLICATIONS.**

**For further information contact your Dow sales or technical representative to request a Medical Application Review Request Form. Additional details of Dow's Medical Applications Policy are available at:**
**https://www.dow.com/en-us/support/product-safety.html**

**Tobacco and Marijuana Policy**

**Dow does not support or intend for its products to be used, directly or indirectly, in the production of tobacco, the manufacture of tobacco products, the manufacture and use of electronic cigarettes (including vaping devices), the production of marijuana, or the manufacture of marijuana products intended for human consumption, where the Dow product (or its residues) may be present in the finished product or be alleged to facilitate the delivery of nicotine, other tobacco components, marijuana, or marijuana components.**

**Harmful Applications Policy**

**Dow does not intend for its products to be used in applications specifically intended to harm humans.**

**Disclaimer**

**NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**

**NOTICE: If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; (3) there is greater potential for Dow to change specifications and/or discontinue production; and (4) although Dow may from time to time provide samples of such products, Dow is not obligated to supply or otherwise commercialize such products for any use or application whatsoever.**

**For additional information, not covered by the content of this document, contact us via our web site**
**http://www.dow.com/products_services**

**Revision Date: 26-February-2021**
**P&SP Disclaimer**

**Additional Information**

**To contact Dow via Toll-Free or Local Toll phone numbers in specific countries, please see the following webpage:**
**https://www.dow.com/en-us/support/contact-representative.html**

***http://www.dow.com***
**Updated February 2021**
**© 2019 The Dow Chemical Company**

Version: 82.0
Last modified at 5/8/2020 5:48 PM