



Dow Packaging & Specialty Plastics

Product Data Sheet

FUSABOND™ E100

Functional Polymer

General Information

Product Description FUSABOND™ E100 is an anhydride modified high density polyethylene, mainly intended for use as a component in a blend with other polymers including polyolefins and polyamides. It is not intended for extrusion in its pure form in typical extrusions or coextrusions. Available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

Status

Material Status Commercial: Active

Typical Characteristics

Uses Polymer Modifier

Composition High% By Weight Maleic Anhydride
Graft levels are defined as:
Low < 0.2%; Medium 0.2-0.5%; High 0.5-1.0%; Ultra high > 1.0%

Typical Properties

Physical	Nominal Values	Test Method(s)	
*Density ()	0.954 g/cm ³	ASTM D792	ISO 1183
*Melt Flow Index (190°C/2.16kg)	2 g/10 min	ASTM D1238	ISO 1133
Thermal	Nominal Values	Test Method(s)	
*Melting Point (DSC)	134 °C (273.2 °F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	115 °C (239 °F)	ASTM D3418	ISO 3146
Vicat Softening Point ()	127 °C (260.6 °F)	ASTM D1525	ISO 306

Processing Information

*Maximum Processing Temperature 300 °C (572 °F)

FDA Status Information

FUSABOND™ E100 Resin complies with Food and Drug Administration Regulation 21 CFR 175.105 - - Adhesives. This Regulation describes adhesives that may be used as components of articles intended for use in packaging, transporting, or holding food, subject to the limitations and requirements therein.

The information and certifications provided herein are based on data we believe to be reliable, to the best of our knowledge. The information and certifications apply only to the specific material designated herein as sold by Dow and do not apply to use in any process or in combination with any other material. They are provided at the request of and without charge to our customers. Accordingly, Dow cannot guarantee or warrant such certifications or information and assumes no liability for their use.

Regulatory Information

For information on regulatory compliance 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.

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

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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>

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Harmful Applications Policy

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http://www.dow.com/products_services

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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>

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