

DuPont™ Fusabond® E589

Fusabond® Adhesive resins Product Data Sheet

Description

Product Description DuPont™ Fusabond® E589 is an anhydride modified polyethylene.

Restrictions

Material Status

- Commercial: Active

Typical Characteristics

Uses

- Adhesives
- Pipe Coating
- Tie-Layer

Features Premium adhesive for Pipe Coating tie-layer onto high surface temperatures. (90°C)

Typical Properties

Physical	Nominal Values	Test Method(s)	
* Density (compression molded plaque)	0.924 g/cm ³	ASTM D792	ISO 1183
* Melt Flow Rate (190°C/2.16kg)	2 g/10 min	ASTM D1238	ISO 1133
Tensile Strength @ Yield @ 23C (50mm/min)	11.6 MPa	ASTM D638	Type IV
Tensile Strength @ Ultimate @ 23C (50mm/min)	22 MPa	ASTM D638	
Tensile Elongation @ Break @ 23C (50mm/min)	> 700%	ASTM D638	
Oxidation Induction Time @ 220C (in Oxygen atmosphere)	16 minutes	ASTM D3895	
Flexural Modulus (0.05 in/min)	330 MPa	ASTM D790-92	
Heat Distortion Temperature (455 KPa)	61 Celsius	ASTM D648	
Hardness (Shore "D" Scale)	58	ASTM 2240	
Thermal	Nominal Values	Test Method(s)	
* Melting Point (DSC)	119°C (246°F)	ASTM D3418	ISO 3146
Freezing Point (DSC)	105°C (221°F)	ASTM D3418	ISO 3146
Vicat Softening Point	99°C (210°F)	ASTM D1525	ISO 306

(VICAT @ 50C/hr, 10N)

Additional

Adhesive Evaluation

1376 pound force (lbf)
(Lap Shear @ 23°C)

ASTM D1002

Processing Information

General

* Maximum Processing Temperature 250°C (482°F)

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 DuPont Packaging and Industrial Polymers representative.

Read and Understand the Material Safety Data Sheet (MSDS) before using this product

Regional Centres

DuPont operates in more than 70 countries. For help finding a local representative, please contact one of the following regional customer contact centers:

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