



Fusabond® E589

DuPont Packaging & Industrial Polymers - Polyethylene

Tuesday, November 5, 2019

General Information

Product Description

DuPont™ Fusabond® E564 is an anhydride modified polyethylene.

Uses

- Adhesives
- Pipe Coating
- Tie-Layer

Features

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

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Adhesives	• Pipe Coatings	• Tie-Layer
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.926		ASTM D792
Density	0.924	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 73°F)	1680	psi	ASTM D638
Tensile Strength ³ (Break, 73°F)	3190	psi	ASTM D638
Tensile Elongation ³ (Break, 73°F)	> 700	%	ASTM D638
Flexural Modulus ⁴	47900	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	142	°F	ASTM D648
Vicat Softening Temperature	210	°F	ASTM D1525
Vicat Softening Temperature	210	°F	ISO 306
Peak Melting Temperature	246	°F	ASTM D3418
Melting Temperature (DSC)	246	°F	ISO 3146
Freezing Point			
--	221	°F	ASTM D3418
--	221	°F	ISO 3146
Oxidation Induction Time - in Oxygen atmosphere (72°F)	16	min	ASTM D3895
Additional Information	Nominal Value	Unit	
Maximum Processing Temperature	482	°F	

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Notes

¹ Typical properties: these are not to be construed as specifications.

² Type IV, 2.0 in/min

³ 2.0 in/min

⁴ 0.050 in/min