

AMPLIFY™ EA 100

Functional Polymer

The Dow Chemical Company

Message:

AMPLIFY™ EA 100 Functional Polymer is produced via a high-pressure reactor. This ethylene-ethyl acrylate (EEA) copolymer exhibits high flexibility and imparts low temperature toughness to a wide range of engineering resins. This polymer demonstrates excellent blend compatibility with other polyolefins. It can be utilized as a tie layer between polyolefins and a variety of polar substrates, such as metal, polyvinylidene chloride (PVDC), polyolefins, cellulose, polyester, polycarbonate, glass, foil, PVC, PET, and Polystyrene.

High performance packaging applications

Polymer modification

Tie layer to PVDC and Polyolefins

Extrusion grade for profile and tubing

Superior additive concentrate carrier

Excellent thermal stability

Complies with:

U.S. FDA 21 CFR 175.105

U.S. FDA 21 CFR 177.1320 (with Restrictions)

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 175.105		
	FDA 21 CFR 177.1320		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion coating		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238, ISO 1133
Comonomer Content ¹	15.0	%	ASTM D3594
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	87		ASTM D2240, ISO 868
Shaw D	37		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638, ISO 527-2
Yield	3.79	MPa	ASTM D638, ISO 527-2
Fracture	17.9	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	8.0	%	ASTM D638, ISO 527-2

Fracture	750	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	66.9	MPa	ASTM D790B, ISO 178
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ²	No Break		ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	32.8	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	67.2	°C	ASTM D1525, ISO 306
Melting Temperature (DSC)	98.9	°C	Internal method
Peak Crystallization Temperature (DSC)	82.2	°C	Internal method
Additional Information			
根据 ASTM D 4976 进行模塑和测试.			
NOTE			

1. The calibration range is 15 - 20% EA; the path length has been standardized; the substrate/film thickness is 15 mil; the press temperature is 160°C
2. Type s

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