AMPLIFY™ EA 101

Functional Polymer

The Dow Chemical Company

Message:

AMPLIFY™ EA 101 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, polyvinylidiene chloride (PVDC), polyolefins, cellulose, polyester, polycarbonate, glass, foil, PVC, PET, and Polystyrene.

High performance packaging applications

Polymer modification

Tie layer to PVDC and Polyolefins

Superior additive concentrate carrier

Low gels with excellent thermal stability

Complies with:

U.S. FDA 21 CFR 175.105

General Information

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

EU, No 10/2011

Consult the regulations for complete details.

Agency Ratings	FDA 21 CFR 175.105		
	FDA 21 CFR 177.1320		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.931	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Comonomer Content ¹	18.5	%	ASTM D3594
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A	86		ASTM D2240, ISO 868
Shaw D	31		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638, ISO 527-2
Yield	2.96	МРа	ASTM D638, ISO 527-2
Fracture	13.4	МРа	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	10	%	ASTM D638, ISO 527-2
Fracture	750	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	55.2	MPa	ASTM D790B, ISO 178

Impact	Nominal Value	Unit	Test Method	
Tensile Impact Strength ²	672	kJ/m²	ASTM D1822	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (0.45				
MPa, Unannealed)	31.1	°C	ASTM D648	
Brittleness Temperature	< -76.1	°C	ASTM D746	
Vicat Softening Temperature	57.2	°C	ASTM D1525, ISO 306	
Melting Temperature (DSC)	97.8	°C	Internal method	
Peak Crystallization Temperature (DSC)	82.8	°C	Internal method	
Additional Information				
根据 ASTM D 4976 进行模塑和测试.				
NOTE				
	The calibration range is 15 - 20%			
	EA; the path length has been			
	standardized; the substrate/film			
	thickness is 15 mil; the press			
1.	temperature is 160°C			
2.	Type s			

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