

Dow AMPLIFY™ EA 102 Ethylene-ethyl Acrylate (EEA)

Category : Polymer , Thermoplastic

Material Notes:

AMPLIFY™ EA 102 Functional Polymer is produced via a high pressure reactor. It 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. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AMPLIFY-EA-102-Ethylene-ethyl-Acrylate-EEA.php

Physical Properties	Metric	English	Comments
Density	0.931 g/cc	0.0336 lb/in ³	ASTM D792
Filler Content	18.5 %	18.5 %	Comonomer; ASTM D4094
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ASTM D2240
Hardness, Shore D	30	30	ASTM D2240
Tensile Strength, Ultimate	12.8 MPa	1850 psi	ASTM D638
Tensile Strength, Yield	2.96 MPa	430 psi	ASTM D638
Elongation at Break	750 %	750 %	ASTM D638
Elongation at Yield	11 %	11 %	ASTM D638
Flexural Modulus	0.0496 GPa	7.20 ksi	2% Secant; ASTM D790
Tensile Impact Strength	630 kJ/m ²	300 ft-lb/in ²	ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	98.0 °C	208 °F	Dow Method
Crystallization Temperature	80.0 °C	176 °F	Dow Method
Deflection Temperature at 0.46 MPa (66 psi)	32.2 °C	90.0 °F	ASTM D648
Vicat Softening Point	56.1 °C	133 °F	ASTM D1525

Brittleness Temperature Thermal Properties	≤ -76.0 °C Metric	≤ -105 °F English	ASTM D746 Comments
---	----------------------	----------------------	-----------------------

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China