

Dow AMPLIFY™ EA 101 Ethylene-ethyl Acrylate (EEA)

Category : Polymer , Thermoplastic

Material Notes:

AMPLIFY™ EA 101 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-101-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	31	31	ASTM D2240
Tensile Strength, Ultimate	13.4 MPa	1950 psi	ASTM D638
Tensile Strength, Yield	2.96 MPa	430 psi	ASTM D638
Elongation at Break	750 %	750 %	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus	0.0552 GPa	8.00 ksi	2% Secant; ASTM D790
Tensile Impact Strength	672 kJ/m ²	320 ft-lb/in ²	ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	98.0 °C	208 °F	Dow Method
Crystallization Temperature	83.0 °C	181 °F	Dow Method
Deflection Temperature at 0.46 MPa (66 psi)	31.1 °C	88.0 °F	ASTM D648
Vicat Softening Point	57.2 °C	135 °F	ASTM D1525

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