

Dow AMPLIFY™ EA 100 Ethylene-ethyl Acrylate (EEA) (discontinued **)

Categories: [Polymer](#); [Thermoplastic](#)

Material Notes: AMPLIFY™ EA 100 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

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792
Filler Content	15 %	15 %	Comonomer; ASTM D4094
Melt Flow	1.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240
Hardness, Shore D	37	37	ASTM D2240
Tensile Strength, Ultimate	17.9 MPa	2600 psi	ASTM D638
Tensile Strength, Yield	3.79 MPa	550 psi	ASTM D638
Elongation at Break	750 %	750 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ASTM D638
Flexural Modulus	0.0669 GPa @Strain 2.00 %	9.70 ksi @Strain 2.00 %	Secant; ASTM D790
Tensile Impact Strength	NB	NB	ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	99.0 °C	210 °F	Dow Method
Crystallization Temperature	82.0 °C	180 °F	Dow Method
Deflection Temperature at 0.46 MPa (66 psi)	32.8 °C	91.0 °F	ASTM D648
Vicat Softening Point	67.2 °C	153 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

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Materials flagged as discontinued (D) are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

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