# Dow AMPLIFY™ EA 103 Ethylene-ethyl Acrylate (EEA)

**Category :** Polymer , Thermoplastic

**Material Notes:**

AMPLIFY™ EA 103 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. It can be utilized as in a hot metal adhesive formulation due to the high thermal stability it offers. It is an excellent base component for a film laminate and has marginal RF welding capability. 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.Information provided by Dow

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-AMPLIFY-EA-103-Ethylene-ethyl-Acrylate-EEA.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 0.930 g/cc | 0.0336 lb/in³ | ASTM D792 |
| Filler Content | 19.5 % | 19.5 % | Comonomer; ASTM D4094 |
| Melt Flow | 21 g/10 min<br>@Load 2.16 kg, Temperature 190 °C | 21 g/10 min<br>@Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Hardness, Shore A | 82 | 82 | ASTM D2240 |
| Hardness, Shore D | 27 | 27 | ASTM D2240 |
| Tensile Strength, Ultimate | 9.65 MPa | 1400 psi | ASTM D638 |
| Tensile Strength, Yield | 2.59 MPa | 375 psi | ASTM D638 |
| Elongation at Break | 750 % | 750 % | ASTM D638 |
| Elongation at Yield | 11 % | 11 % | ASTM D638 |
| Flexural Modulus | 0.0427 GPa | 6.20 ksi | 2% Secant; ASTM D790 |
| Tensile Impact Strength | 504 kJ/m² | 240 ft-lb/in² | ASTM D1822, Type S |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Melting Point | 95.0 °C | 203 °F | Dow Method |
| Crystallization Temperature | 78.0 °C | 172 °F | Dow Method |
| Deflection Temperature at 0.46 MPa (66 psi) | 31.1 °C | 88.0 °F | ASTM D648 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Brittleness Temperature | <= -83.0 °C | <= -117 °F | ASTM D746 |

## Contact Songhan Plastic Technology Co.,Ltd.

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