

Dow AMPLIFY™ VA 400 Ethylene vinyl acetate (EVA)

Category : Polymer , Thermoplastic

Material Notes:

AMPLIFY™ VA 400 Functional Polymer is produced via a high pressure reactor. It exhibits high flexibility, clarity and low temperature sealability. It is easy to process and features functional adhesion to various substrates including polyolefins, cellulose, polyester, polycarbonate, glass, and foil. It provides excellent blend compatibility with polyolefins and fillers. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AMPLIFY-VA-400-Ethylene-vinyl-acetate-EVA.php

Physical Properties	Metric	English	Comments
Density	0.928 g/cc	0.0335 lb/in³	ASTM D792
Filler Content	10.5 %	10.5 %	Comonomer; ASTM D4094
Melt Flow	1.85 g/10 min @Load 2.16 kg, Temperature 190 °C	1.85 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	ASTM D2240
Tensile Strength, Ultimate	19.3 MPa	2800 psi	ASTM D638
Tensile Strength, Yield	5.17 MPa	750 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Flexural Modulus	0.0965 GPa	14.0 ksi	2% Secant; ASTM D638
Tensile Impact Strength	651 kJ/m²	310 ft-lb/in²	ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	96.0 °C	205 °F	Dow Method
Crystallization Temperature	81.0 °C	178 °F	Dow Method
Deflection Temperature at 0.46 MPa (66 psi)	33.9 °C	93.0 °F	ASTM D648
Vicat Softening Point	75.0 °C	167 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

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