

## DuPont Bynel® E418 Anhydride-Modified Ethylene Vinyl Acetate Adhesive Resin

Category : Polymer , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Adhesive/Sealant Grade

### Material Notes:

Bynel® Series 3800 resins are anhydride-modified ethylene vinyl acetate polymers. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins. Applications: Bynel® 3810 and Bynel® 3859 adhere to a wide variety of materials. They are most often used to adhere to PE, PS, and EVOH. They can also be used to adhere to polyamide. They provide outstanding adhesion to PS. They are typically used to bond PS to EVOH barrier resins in opaque thermoformed container applications. They are also well suited to structures such as PS/Bynel® /EVOH/Bynel® /PE, because they adhere to polyolefins in addition to PS and EVOH. The primary difference between Bynel® 3810 and Bynel® 3859 is their rheology. Bynel® 3810 and Bynel® 3859 can be used in coextrusion processes including: cast film/sheet blown film Bynel® 3860 and Bynel® 3861 are most often used to adhere to PE, ionomer, PS, EVOH, and PET. They can also be used to bond to PP, PVC, PVDC, PC, and polyamide. Bynel® 3860 and Bynel® 3861 are used in transparent PS/EVOH/PE structures as well as PET/PE cast sheet. Bynel® 3860 is used to coextrusion coat EVOH onto OPP. The primary difference between Bynel® 3860 and Bynel® 3861 is their rheology. Bynel® 3860 and Bynel® 3861 can be used in coextrusion processes including: cast film/sheet blown film extrusion coating Bynel® E418 provides good adhesion to unprimed oriented polyester film. It will also adhere to PE, EVA, Surlyn® , EVOH, PET, PC, PS, polyamide, PVC, and PVDC. Bynel® E418 will also bond to fabric and nonwovens. Physical properties of Bynel® 3800 Series resins are typical of EVA resins with similar density and melt index values. The rheology characteristics of each grade are different, so one may be better suited than the others to a particular extrusion process. Information provided by DuPont Packaging Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Bynel-E418-Anhydride-Modified-Ethylene-Vinyl-Acetate-Adhesive-Resin.php](http://www.lookpolymers.com/polymer_DuPont-Bynel-E418-Anhydride-Modified-Ethylene-Vinyl-Acetate-Adhesive-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D792
Viscosity	700000 cP @Shear Rate 50.0 1/s, Temperature 190 °C	700000 cP @Shear Rate 50.0 1/s, Temperature 374 °F	estimated from log-log graph
Melt Flow	10.9 g/10 min @Load 2.16 kg, Temperature 190 °C	10.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Thermal Properties	Metric	English	Comments
Melting Point	48.0 °C	118 °F	Freezing point via DSC/ASTM D3418
	74.0 °C	165 °F	Melting point via DSC/ASTM D3418
Vicat Softening Point	42.0 °C	108 °F	ASTM D1525

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Nozzle Temperature	235 °C	455 °F	Die Extruder forward zone and adapter. Degrades above 238°C.

## Contact Songhan Plastic Technology Co.,Ltd.

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