

DuPont Bynel® 3101 Acid-/Acrylate-Modified EVA Adhesive Resin

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

Material Notes:

Bynel® Series 3100 resins are acid/acrylate-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® 3101, 3120, and E326 adhere to a wide variety of materials. They are most often used to adhere to PE, acid copolymers, and ionomers. In addition, Bynel® 3101 and Bynel® 3120 bond to PVDC. Bynel® 3101 is also useful in adhering to polyester. Bynel® E326 also bonds to paper. The use of Bynel® Series 3100 resins can be advantageous in applications where acid-containing polymers, such as acid copolymers or ionomers, are to be combined with PVDC. Bynel® 3101, 3120, and E326 can be used in coextrusion processes including: blown film, cast film/sheet, extrusion coating, thermal lamination. Bynel® 3101 and Bynel® 3120 can also be used in blow molding. Physical properties of Bynel® Series 3100 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-3101-Acid-Acrylate-Modified-EVA-Adhesive-Resin.php

Physical Properties	Metric	English	Comments
Density	0.943 g/cc	0.0341 lb/in ³	ASTM D792
Viscosity	800000 cP @Shear Rate 50.0 1/s, Temperature 190 °C	800000 cP @Shear Rate 50.0 1/s, Temperature 374 °F	estimated from log-log graph
Melt Flow	3.2 g/10 min @Load 2.16 kg, Temperature 190 °C	3.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Thermal Properties	Metric	English	Comments
Melting Point	69.0 °C	156 °F	Freezing point via DSC/ASTM D3418
	87.0 °C	189 °F	Melting point via DSC/ASTM D3418
Vicat Softening Point	65.0 °C	149 °F	ASTM D1525

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

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