

DuPont Bynel® 41E687 Adhesive Resin

Category : Polymer , Thermoplastic , Ethylene Vinyl Acetate

Material Notes:

Bynel® Series 4100 resins are anhydride-modified linear low-density polyethylene (LLDPE) resins. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins. Applications: Bynel® Series 4100 resins adhere to a variety of materials. They are most often used to adhere to EVOH, polyamide, PE, ionomers, and ethylene copolymers. Bynel® Series 4100 resins can be used in coextrusion processes including: blown filmcast film/sheetblow molding melt and solid phase thermoforming sheet and tubing In particular, Bynel® 41E687 provides outstanding adhesion to ionomers, particularly sodium ionomers in blown film. A potential application in a barrier/ionomer structure is oil pouches or sachets. It is also useful in cook-in applications.

Information provided by DuPont™

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Bynel-41E687-Adhesive-Resin.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in³	ASTM D792
Melt Flow	1.7 g/10 min	1.7 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Thermal Properties	Metric	English	Comments
Melting Point	103 °C	217 °F	Freezing Point, DSC; ASTM D3418
	119 °C	246 °F	DSC; ASTM D3418
Vicat Softening Point	84.0 °C	183 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	120 °C	248 °F	For high temperature coextrusions.
	120 °C	248 °F	For coextrusion with EVA or EVOH.
Middle Barrel Temperature	220 °C	428 °F	For coextrusion with EVA or EVOH.
	235 °C	455 °F	For high temperature coextrusions.
Front Barrel Temperature	235 °C	455 °F	For coextrusion with EVA or EVOH.
	250 °C	482 °F	For high temperature coextrusions.
Adapter Temperature	235 °C	455 °F	For coextrusion with EVA or EVOH.
	250 °C	482 °F	For high temperature coextrusions.

Die Temperature Processing Properties	235 °C Metric	455 °F English	For coextrusion with EVA or EVOH. Comments
	250 °C	482 °F	For high temperature coextrusions.

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