

DuPont™ Bynel® 41E762 Anhydride Modified LLDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

BYNEL® 41E762 is an anhydride-modified, linear low-density polyethylene (LLDPE) resin. All BYNEL Series 4100 series resins are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene resins. Physical properties of BYNEL Series 4100 resins are typical of linear low-density polyethylene resins with similar density and melt index values. Use of these adhesive resins in coextruded PE/barrier structures offers improved thermal resistance over that of ethylene vinyl acetate-based adhesive resins. BYNEL 4100 series resins adhere to a variety of materials. They are most often used to adhere to EVOH, polyamide, PE and ethylene copolymers. Series 4100 resins can be used in coextrusion processes including: blown film cast film/sheet blow molding melt and solid phase thermoforming sheet and tubing LLDPE resins are known for their temperature resistance, clarity and toughness. These physical properties make the 4100 series resins work well in applications such as: boil-in-bag structures blow molded containers in which drop strength is important bag-in-box films film where LLDPE is the heat seal layer. BYNEL 41E762 resin conforms with the Code of Federal Regulations, Title 21, Paragraph 175.105, covering the use of adhesive interlayers in composite packages for food use. This regulation describes adhesives that may be safely used as components of articles intended for use in packaging, transporting or holding food. This regulation requires that either (1) the adhesive is separated from the food by a functional barrier, or (2) the quantity of adhesive which contacts fatty or aqueous foods does not exceed the trace amounts at the seams or edges. Customers should satisfy themselves that the food contact material is serving as a functional barrier to the adhesive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Bynel-41E762-Anhydride-Modified-LLDPE.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in³	ASTM D792, ISO 1183
Melt Flow	2.5 g/10 min @Load 2.16 kg, Temperature 190 °C	2.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238, ISO 1133

Thermal Properties	Metric	English	Comments
Melting Point	114 °C	237 °F	Freezing Point; ASTM D3418
	127 °C	261 °F	ASTM D3418, ISO 3146
Vicat Softening Point	100 °C	212 °F	ASTM D1525, ISO 306

Processing Properties	Metric	English	Comments
Processing Temperature	<= 260 °C	<= 500 °F	
Feed Temperature	160 °C	320 °F	CoExtrusion with EVOH Processing
	160 °C	320 °F	CoExtrusion with Nylon Processing
Zone 2	185 °C	365 °F	CoExtrusion with EVOH Processing

Processing Properties	Metric 185 °C	English 355 °F	Comments CoExtrusion with Nylon Processing
Zone 3	235 °C	455 °F	CoExtrusion with EVOH Processing
	235 °C	455 °F	CoExtrusion with Nylon Processing
Zone 4	235 °C	455 °F	CoExtrusion with EVOH Processing
	260 °C	500 °F	CoExtrusion with Nylon Processing
Zone 5	235 °C	455 °F	CoExtrusion with EVOH Processing
	260 °C	500 °F	CoExtrusion with Nylon Processing
Adapter Temperature	235 °C	455 °F	CoExtrusion with EVOH Processing
	260 °C	500 °F	CoExtrusion with Nylon Processing
Die Temperature	235 °C	455 °F	CoExtrusion with EVOH Processing
	260 °C	500 °F	CoExtrusion with Nylon Processing
Melt Temperature	210 - 235 °C	410 - 455 °F	CoExtrusion with EVOH Processing
	<= 260 °C	<= 500 °F	CoExtrusion with Nylon Processing

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