

DuPont™ Bynel® 41E755 Anhydride Modified LLDPE

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

Material Notes:

BYNEL® Series 4100 resins are anhydride-modified, linear low-density polyethylene (LLDPE) resins. All 4100 series resins are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) 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 41E755 is specifically designed to provide high adhesion to both metals and polyolefins when converted into film form and used as a thermal lamination film. It has a low coefficient of friction for easy film handling and provides strong bonds that fail cohesively. BYNEL 41E755 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 which 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-41E755-Anhydride-Modified-LLDPE.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792, ISO 1183
Melt Flow	4.2 g/10 min @Load 2.16 kg, Temperature 190 °C	4.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238, ISO 1133

Thermal Properties	Metric	English	Comments
Melting Point	109 °C	228 °F	Freezing Point; ASTM D3418
	125 °C	257 °F	ASTM D3418, ISO 3146
Vicat Softening Point	100 °C	212 °F	ASTM D1525, ISO 306

Processing Properties	Metric	English	Comments
Processing Temperature	<= 250 °C	<= 482 °F	
Feed Temperature	160 °C	320 °F	Blown Film Coextrusion
Zone 2	185 °C	365 °F	Blown Film Coextrusion
Zone 3	185 °C	365 °F	Blown Film Coextrusion
Zone 4	185 °C	365 °F	Blown Film Coextrusion
Zone 5	185 °C	365 °F	Blown Film Coextrusion

Processing Properties	Metric	English	Comments
Die Temperature	185 °C	365 °F	Blown Film Coextrusion
Melt Temperature	210 - 235 °C	410 - 455 °F	CoExtrusion with EVOH Processing
	<= 250 °C	<= 482 °F	CoExtrusion with Nylon Processing

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