DuPont™ Bynel® 50E803 Anhydride Modified Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

BYNEL® Series 5000 resins are anhydride-modified polypropylene resins. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polypropylene (PP) resins. BYNEL 50E803 is a grade with a higher level of anhydride modification, and is mainly intended for use as a component in a blend with ether polyolefin resins. It is not intended for extrusion in its pure form in typical extrusions or coextrusions. Physical properties of BYNEL Series 5000 resins are typical of polypropylene resins with similar density and melt flow rates. BYNEL 5000 series resins adhere to a variety of materials. They are most often used to adhere to PP, EVOH and polyamide. These resins are designed for applications in which EVOH or polyamide is melt coextruded with PP or PP copolymers. BYNEL 50E803 is intended mainly for blending into PP to provide PP the ability to bond to barrier resins such as polyamide or EVOH. BYNEL 50E803 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-50E803-Anhydride-Modified-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in³	ASTM D792, ISO 1183
Melt Flow	470 g/10 min @Load 2.16 kg, Temperature 190 °C	470 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238, ISO 1133

Thermal Properties	Metric	English	Comments
Melting Point	135 °C	275 °F	ASTM D3418, ISO 3146
Vicat Softening Point	112 °C	234 °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	210 °C	410 °F	CoExtrusion with EVOH Processing
	235 °C	455 °F	CoExtrusion with Nylon Processing
Zone 3	235 °C	455 °F	CoExtrusion with EVOH Processing

Processing Properties	Metric	English	Comments
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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