Bynel® 41E710

Linear Low Density Polyethylene

DuPont Packaging & Industrial Polymers

Message:

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. BYNEL 41E710 is a grade with a higher level of anhydride modification, and is mainly intended for use as a component in a blend with other polyolefin resins. It is not intended for extrusion in its pure form in typical extrusions or coextrusions. 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.

General Information				
Features	Good adhesion			
Uses	Films			
	Blow molding application	IS		
	Pipe fittings			
	Mixing			
	cast film			
	Sheet			
	Container			
	Adhesive			
Agency Ratings	FDA 21 CFR 175.105			
Forms	Particle			
Processing Method	Solid Phase Press. Form.	Thermoforming		
	Blow molding			
	Co-extrusion molding			
	Extrusion			
	Thermoforming			
Physical	Nominal Value	Unit	Test Method	

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Specific Gravity	0.910	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	2.7	g/10 min	ASTM D1238, ISO 1133
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	103	°C	ASTM D1525, ISO 306
Melting Temperature (DSC)	115	°C	ASTM D3418, ISO 3146
Freezing Point			
	98	°C	ISO 3146
	98	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160	°C	
Cylinder Zone 2 Temp.	185	°C	
Cylinder Zone 3 Temp.	235	°C	
Cylinder Zone 4 Temp.	235	°C	
Cylinder Zone 5 Temp.	235	°C	
Adapter Temperature	235	°C	
Malt Tanan anatura	< 260	°C	
Melt Temperature			

Processing conditions shown are for coextrusion with EVOH.Processing conditions for coextrusion with nylon:Zone 1: 160°CZone 2: 185°CZone 3: 235°CZone 4: 260°CZone 5: 260°CAdapter: 260°CDie: 260°C

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