Bynel® 41E687

Linear Low Density Polyethylene

DuPont Packaging & Industrial Polymers

Message:

BYNEL® Series 4100 series resins are anhydride-modified, linear low-density polyethylene (LLDPE) resins. All BYNEL Series 4100 series resins are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene 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.

General Information				
Features	Good adhesion			
Uses	Films			
	Blow molding applications			
	Pipe fittings			
	cast film			
	Sheet			
	Container			
	Adhesive			
Agency Ratings	FDA 21 CFR 175.105	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	
Specific Gravity	0.910	g/cm³	ASTM D792, ISO 1183	
Melt Mass-Flow Rate (MFR) (190°C/2				
kg)	1.7	g/10 min	ASTM D1238, ISO 1133	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	84.0	°C	ASTM D1525, ISO 306	
Peak Melting Temperature	119	°C	ASTM D3418, ISO 3146	

Freezing Point	103	°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	
Melt Temperature	< 260	°C	
Die Temperature	235	°C	
Extrusion instructions			

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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