# Bynel® 41E556

# 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
Forms	Particle
Processing Method	Blow molding
	Co-extrusion molding
	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.1 kg)	6 3.4	g/10 min	ASTM D1238, ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	105	°C	ASTM D1525, ISO 306
Melting Temperature	126	°C	DSC, ISO 3146
Additional Information			

The value listed as Melting Point, DSC	was tosted in accordance with	ACTM D2419 Franzing Point	(DCC) ACTM D2419: 111°C
The value listed as Melting Point, DSC	., was tested in accordance with	1 A3 HVI D34 16.Freezina Point	(DSC), ASTIVI D34 16, 111 C

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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# Recommended distributors for this material

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