

# Bynel® 4206

Low Density Polyethylene

DuPont Packaging & Industrial Polymers

## Message:

BYNEL® Series 4200 resins are anhydride-modified, low-density polyethylene resins containing anhydride. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

BYNEL 4200 series resins are specifically designed to provide high interlayer adhesion between: EVOH, polyamide, PE, ethylene copolymers and ionomers.

Applications in which the use of these resins is advantageous include:

barrier bag-in-box films

large pouches for hospital, restaurant or institutional uses

rigid containers in which PE is the structural component.

In addition, with their high adhesion to ionomers, these resins are advantageous in multi-layer ionomer/barrier constructions designed to package oily products.

General Information	
Uses	Films
	Bags
	Container

Agency Ratings	FDA 21 CFR 175.105
Forms	Particle
Processing Method	Co-extrusion molding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238, ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	75.0	°C	ASTM D1525, ISO 306
Melting Temperature	102	°C	DSC, ISO 3146

## Additional Information

The value listed as Melting Point, DSC, was tested in accordance with ASTM D3418. Freezing Point (DSC), ASTM D3418: 91°C

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	135	°C
Cylinder Zone 2 Temp.	185	°C
Cylinder Zone 3 Temp.	210	°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°C Zone 2: 210°C Zone 3: 235°C Zone 4: 260°C Zone 5: 260°C Adapter: 260°C Die: 260°C

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