

Bynel® 42E703

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 filmslarge pouches for hospital, restaurant or institutional usesrigid 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		
	Container		
Agency Ratings	FDA 21 CFR 175.105		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.4	g/10 min	ASTM D1238, ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	80.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	105	°C	ASTM D3418, ISO 3146
Freezing Point	96	°C	ASTM D3418
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°CZone 2: 210°CZone 3: 235°CZone 4: 260°CZone 5: 260°CAdapter: 260°CDie: 260°C

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