

Bynel® 4033

High Density Polyethylene

DuPont Packaging & Industrial Polymers

Message:

BYNEL® Series 4000 resins are anhydride-modified, high-density polyethylene resins. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

BYNEL 4033 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 Series 4000 resins are excellent moisture barriers and have a good hydrocarbon resistance. This unique combination of properties makes them useful in a variety of coextrusion applications. HDPE/EVOH tubing and HDPE/polyamide bottles for agricultural chemicals are two examples.

BYNEL 4000 series resins are most often used in coextrusion with EVA, EVOH, polyamide and PE.

General Information			
Features	Hydrocarbon resistance		
Uses	Pipe fittings		
	Mixing		
	Agricultural application		
	Bottle		
Agency Ratings	FDA 21 CFR 175.105		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238, ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ASTM D1525, ISO 306
Peak Melting Temperature	135	°C	ASTM D3418, ISO 3146
Freezing Point	114	°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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