



Bynel® 2022

DuPont Packaging & Industrial Polymers - Ethylene Acrylic Acid Copolymer

Sunday, November 3, 2019

General Information

Product Description

BYNEL® Series 2000 resins are acid modified ethylene acrylate resins. They contain a temperature stable ester which makes them functional in high temperature coextrusions. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

BYNEL 2000 series resins adhere to a wide variety of materials. They are most often used to adhere to PE, EVA, Polyamide, ionomer, paper, aluminum foil, and printed films.

BYNEL 2022 is designed for low melt temperature extrusion or coextrusion coating / laminating applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion		
Uses	• Adhesives	• Coating Applications	• Laminates
Agency Ratings	• FDA 21 CFR 177.1330(b)		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.932		ASTM D792
Density	0.930	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	35	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	35	g/10 min	ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	136	°F	ASTM D1525
Vicat Softening Temperature	136	°F	ISO 306
Peak Melting Temperature	189	°F	ASTM D3418
Melting Temperature (DSC)	189	°F	ISO 3146
Freezing Point			
--	144	°F	ASTM D3418
--	144	°F	ISO 3146

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	275	°F
Cylinder Zone 2 Temp.	365	°F
Cylinder Zone 3 Temp.	455	°F
Cylinder Zone 4 Temp.	455	°F
Cylinder Zone 5 Temp.	455	°F
Adapter Temperature	455	°F
Melt Temperature	< 500	°F
Die Temperature	455	°F

Extrusion Notes

Processing conditions shown are for extrusion coating/lamination.

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Notes

¹ Typical properties: these are not to be construed as specifications.