

Bynel® 21E810

Ethylene Acrylate Copolymer

DuPont Packaging & Industrial Polymers

Message:

BYNEL® Series 2100 resins are anhydride modified ethylene acrylate resins. They contain a temperature stable ester that allows them to be 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 2100 series resins adhere to a wide variety of materials. They are most often used to adhere to PET to EVOH or PA. They also adhere to PE, PP, and ethylene copolymers.

The BYNEL 2100 series resins can be used in a variety of coextrusion coating and laminating applications.

General Information	
Features	Good adhesion
Uses	Laminate
	Coating application
	Adhesive
Agency Ratings	FDA 21 CFR 175.105
Forms	Particle
Processing Method	Co-extrusion molding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792, ISO 1183

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	g/10 min	ASTM D1238, ISO 1133
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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	57.0	°C	ASTM D1525, ISO 306
Peak Melting Temperature	94.0	°C	ASTM D3418, ISO 3146
Freezing Point	76	°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°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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