

# Bynel® 50E725

Polypropylene  
DuPont Packaging & Industrial Polymers

**Message:**

BYNEL® Series 5000 resins are anhydride-modified polypropylene resins. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polypropylene (PP) resins.

BYNEL 5000 series resins adhere to a variety of materials. They are most often used to adhere to PP, EVOH and polyamide. These resins are designed for applications in which EVOH or polyamide is melt coextruded with PP or PP copolymers.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238, ISO 1133

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	114	°C	ASTM D1525, ISO 306
Peak Melting Temperature	144	°C	ASTM D3418, ISO 3146
Freezing Point	100	°C	ASTM D3418

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160	°C
Cylinder Zone 2 Temp.	210	°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: 210°CZone 3: 260°CZone 4: 260°CZone 5: 260°CAdapter: 260°CDie: 260°C

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Recommended distributors for this material

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