



Bynel® 39E660

DuPont Packaging & Industrial Polymers - Ethylene Vinyl Acetate Copolymer

Sunday, November 3, 2019

General Information

Product Description

BYNEL® Series 3900 resins are anhydride-modified ethylene vinyl acetate polymers. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

BYNEL 3900 series resins are most often used to adhere to EVA, EVOH, ionomer, polyamide and PE.

General

Material Status	• Experimental: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion		
Uses	• Adhesives		
Agency Ratings	• FDA 21 CFR 177.1350(a)(1)		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.942		ASTM D792
Density	0.940	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	162	°F	ASTM D1525
Vicat Softening Temperature	162	°F	ISO 306
Melting Temperature (DSC)			
--	203	°F	ISO 3146
--	203	°F	ASTM D3418
Freezing Point			
--	165	°F	ASTM D3418
--	165	°F	ISO 3146

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	320	°F
Cylinder Zone 2 Temp.	365	°F
Cylinder Zone 3 Temp.	410	°F
Cylinder Zone 4 Temp.	410	°F
Cylinder Zone 5 Temp.	410	°F
Adapter Temperature	455	°F
Melt Temperature	< 455	°F
Die Temperature	455	°F

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Extrusion Notes

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: 235°C

Zone 5: 235°C

Adapter: 235°C

Die: 235°C

Notes

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