Bynel® 3810

Sunday, November 3, 2019

DuPont Packaging & Industrial Polymers - Ethylene Vinyl Acetate Copolymer

General Information

Product Description

BYNEL® Series 3800 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 3810 is most often used in coextrusion of PS or HIPS to EVOH in barrier sheet for thermoforming.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Agency Ratings	• FDA 21 CFR 175.105		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.982		ASTM D792
Density	0.980	g/cm³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	2.6	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.6	g/10 min	ISO 1133
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	138	°F	ASTM D1525
Vicat Softening Temperature	138	°F	ISO 306
Peak Melting Temperature	167	°F	ASTM D3418
Melting Temperature (DSC)	167	°F	ISO 3146
Freezing Point			
--	131	°F	ASTM D3418
--	131	°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	< 455	°F
Die Temperature	455	°F

Extrusion Notes

Processing conditions shown are for coextrusion with EVOH.

Notes

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