



Bynel® 41E755

DuPont Packaging & Industrial Polymers - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information

Product Description

BYNEL® Series 4100 resins are anhydride-modified, linear low-density polyethylene (LLDPE) resins. All 4100 series resins are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

BYNEL 41E755 is specifically designed to provide high adhesion to both metals and polyolefins when converted into film form and used as a thermal lamination film. It has a low coefficient of friction for easy film handling and provides strong bonds that fail cohesively.

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 175.105		
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)	4.2	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.2	g/10 min	ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	212	°F	ASTM D1525
Vicat Softening Temperature	212	°F	ISO 306
Peak Melting Temperature	257	°F	ASTM D3418
Melting Temperature (DSC)	257	°F	ISO 3146
Freezing Point			
--	228	°F	ASTM D3418
--	228	°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.	365	°F
Cylinder Zone 4 Temp.	365	°F
Cylinder Zone 5 Temp.	365	°F
Adapter Temperature	365	°F
Melt Temperature	< 482	°F
Die Temperature	365	°F

Notes

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