

AT 418

Low Density Polyethylene Celanese EVA Performance Polymers

Message:

A low density polyethylene resin well suited for extrusion coating and lamination applications. This resin has excellent adhesion and low neck-in at high speeds.

General Information	
Features	Good Adhesion
	Low Neck-In
Uses	Coating Applications
	Laminates
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Extrusion Coating
	Laminating

Physical	Nominal Value	Unit	Test Method
Density	0.916	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	94		
Shore D	47		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	9.50	MPa	ASTM D638
Tensile Elongation ² (Break)	500	%	ASTM D638
Flexural Modulus - 1% Secant	202	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	280 to 320	°C	
Maximum Line Speed	7.6	m/sec	
Minimum Coating Thickness ³	5.0	µm	

NOTE	
1.	Type IV, 50 mm/min
2.	Type IV, 50 mm/min
3.	3 lb/ream

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