DOW™ LDPE 432E

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE 432E is a high clarity resin designed for lamination film and clarity overwrap applications. This resin contains slip and antiblock additives. When properly fabricated, this product displays excellent processability and draw down, and a very good balance of film impact resistance, tensile strength and tear resistance. Main Applications: Lamination films Food packaging films Complies with: U.S. FDA 21 CFR 177.1520(c)2.2 EU, No 10/2011 Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (1800 ppm)		
	Sliding agent (330 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.925	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	0.10 - 0.30		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
secant modulus			ASTM D882
2% secant, MD: 50 µm	190	MPa	ASTM D882
2% secant, TD: 50 μm	200	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm	10.0	MPa	ASTM D882
TD: Yield, 50 μm	11.0	MPa	ASTM D882
MD: Break, 50 μm	22.0	MPa	ASTM D882
TD: Break, 50 µm	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 µm	450	%	ASTM D882
TD: Break, 50 μm	650	%	ASTM D882
Dart Drop Impact (50 µm)	110	g	ASTM D1709A

Elmendorf Tear Strength ¹			ASTM D1922
MD : 50 µm	500	g	ASTM D1922
TD : 50 μm	400	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm)	67		ASTM D2457
Haze (50.0 µm)	9.0	%	ASTM D1003
Extrusion instructions			
Fabrication Conditions for Blown Film: Blow-up Ratio: 1.5 - 3 Melt Temperature: 170 to 210°C			
NOTE			
1.	Method B		

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