

DOW™ LDPE 305E

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE 305E is a fractional melt index low density polyethylene resin designed for blown film extrusion where good optical properties and an excellent balance of physical properties is required.

Main Characteristics:

High optical properties

Excellent tensile and tear strength

Excellent shrink properties

Complies with:

U.S. FDA 21 CFR 177.1520(c)2.2

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.924	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	ASTM D882
Secant Modulus			
2% Secant, MD : 50 µm	159	MPa	
2% Secant, TD : 50 µm	163	MPa	ASTM D882
Tensile Strength			
MD : Yield, 50 µm	11.0	MPa	
TD : Yield, 50 µm	11.0	MPa	
MD : Break, 50 µm	20.0	MPa	
TD : Break, 50 µm	18.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 µm	390	%	
TD : Break, 50 µm	520	%	
Dart Drop Impact (50 µm)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	240	g	
TD : 50 µm	260	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ASTM D1525

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm)	56		ASTM D2457
Haze (50.0 μm)	9.0	%	ASTM D1003

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