

# DOW™ LDPE 545E

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOW LDPE™ 545E is 0.9 melt index, medium density LDPE suitable for collation shrink film application offering a good balance between shrink performance (hot and cold shrink), optical properties such as high gloss and low haze and mechanical performance.

Main Characteristics:

Low Density Polyethylene Resin

Film Extrusion: Blown

Collation Shrink Film

Blends with LLDPE

Complies with:

EU, No 10/2011

U.S. FDA 177.1520(c)2.2

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	0.928	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.40 to 0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Secant Modulus			ASTM D882
2% Secant, MD : 50 µm	215	MPa	
2% Secant, TD : 50 µm	222	MPa	
Tensile Strength			ASTM D882
MD : Yield, 50 µm	12.0	MPa	
TD : Yield, 50 µm	13.0	MPa	
MD : Break, 50 µm	21.0	MPa	
TD : Break, 50 µm	18.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 µm	390	%	
TD : Break, 50 µm	510	%	
Dart Drop Impact (50 µm)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	200	g	
TD : 50 µm	240	g	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 50.0 μm)	64		ASTM D2457
Haze (50.0 μm)	8.5	%	ASTM D1003

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