

DOW™ LDPE 641S

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW™ LDPE 641S is a Low Density Polyethylene Resin material. It is available in Latin America.

Important attributes of DOW™ LDPE 641S are:

Antiblock

Slip

Typical application of DOW™ LDPE 641S: Food Contact Applications

General Information			
Additive	Antiblock		
	Slip		
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 2.1		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	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			ASTM D1894
vs. Itself - Dynamic	0.12		
vs. Itself - Static	0.18		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Puncture Resistance (50 µm)	3.00	J/cm ³	Internal Method
Tensile Strength			ASTM D882
MD : Yield, 50 µm	11.0	MPa	
TD : Yield, 50 µm	11.0	MPa	
MD : Break, 50 µm	21.0	MPa	
TD : Break, 50 µm	16.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 µm	560	%	
TD : Break, 50 µm	680	%	
Dart Drop Impact (50 µm)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	280	g	
TD : 50 µm	300	g	
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 50.0 μm)	57		ASTM D2457
Haze (50.0 μm)	10	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	193	°C	

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