

# DOW™ LDPE 640S

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOW™LDPE 640S is a low density polyethylene prepared by high pressure process. This resin has good balance in optical properties and mechanical properties, and also has good processing properties.

Main features:

Film for automatic packaging production line

composite film

Diaper Film

general purpose bag

Comply with the requirements of the U.S. Food and Drug Administration Regulation 21 CFR 177.1520 (c) 2.2

Approved for food contact purposes, report issued by INAL in accordance with the Southern Common Market (MERCOSUR) regulations (No. 818/97).

Please check the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm <sup>3</sup>	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
With self-dynamics	0.59		ASTM D1894
With Self-Static	0.62		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Puncture Resistance (50 µm)	3.00	J/cm <sup>3</sup>	Internal method
Tensile Strength			ASTM D882
MD: Yield, 50 µm	11.0	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	18.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 µm	550	%	ASTM D882
TD: Break, 50 µm	770	%	ASTM D882
Dart Drop Impact (50 µm)	94	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	290	g	ASTM D1922
TD : 50 µm	300	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm)	61		ASTM D2457

Haze (50.0 μm)	8.5	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	193	°C	
Extrusion instructions			

薄膜加工条件:螺杆直径:60 mm放大比:2.5:1主体温度:193°C

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