

DOW™ LLDPE 1648

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

LLDPE 1648 is a linear low density polyethylene, hexene copolymer, designated for cast stretch film applications, such as industrial pallet wrap.

Linear low density polyethylene

For industrial pallet wrap stretch film applications

Complies with :

US FDA 21 CFR 177.1520 (c) 3.2a

EU, No 10/2011

Consult the regulations for complete details

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	Internal Method
Film Puncture Resistance (38 µm)	8.94	J/cm ³	
Tensile Strength			ASTM D882
MD : Yield,38 µm	9.50	MPa	ASTM D882
TD : Yield,38 µm	9.50	MPa	
MD : Break, 38 µm	22.7	MPa	
TD : Break, 38 µm	21.1	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	920	%	ASTM D882
TD : Break, 38 µm	960	%	
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	480	g	ASTM D1922
TD : 38 µm	740	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 37.5 µm)	45		ASTM D2457
Haze (37.5 µm)	14	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	206	°C	

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