

LDPE 440C

Low Density Polyethylene
The Dow Chemical Company

Message:

Diaper Films
General Purpose Films
Complies with U.S. FDA 21 CFR 177.1520
Consult the regulations for complete details
LDPE 440C is a Low Density Polyethylene resin produced by the High Pressure Process. This resin is designed for diaper films, tablecloths and shower curtain and for general purpose films, with good optical properties, both for tubular and cast extrusion process.

General Information			
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Tensile Strength			ASTM D882
MD: Yield, 38 µm	12.0	MPa	ASTM D882
TD: Yield, 38 µm	12.0	MPa	ASTM D882
MD: Fracture, 38 µm	22.0	MPa	ASTM D882
TD: Fracture, 38 µm	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	300	%	ASTM D882
TD: Fracture, 38 µm	600	%	ASTM D882
Dart Drop Impact (38 µm)	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	300	g	ASTM D1922
TD : 38 µm	130	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm)	63		ASTM D2457
Haze (38.0 µm)	8.5	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	165	°C	
Extrusion instructions			

制造条件:
螺杆尺寸:45 mm
熔体温度:165°C
放大比:2:1

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