



DOW™ LDPE 525E

Low Density Polyethylene Resin

Overview

DOW LDPE 525E Low Density Polyethylene Resin can be readily extruded using conventional blown film techniques utilizing melt temperatures between 160 and 195 °C. This resin, when properly fabricated, shows excellent mechanical properties, consistent with its higher density (high stiffness) when compared to standard resins, whilst maintaining very high clarity and gloss. It shows good draw down properties and processability. This product does not contain slip nor antiblock additives.

Note: DOW LDPE 525E Low Density Polyethylene Resin should comply with U.S. FDA 21 CFR 177.1520(c)2.2 and with EU, No 10/2011 when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office for food contact compliance statements. The purchaser remains responsible for whether the use complies with all relevant regulations.

Applications:

- High clarity lamination films.
- Label Films
- Packaging of soft products such as hand tissues, toilet tissues, feminine hygiene products.
- High clarity tissues overwrap film.
- Produce bags.
- Food packaging films.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.930 g/cm ³	0.930 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	3.2 g/10 min	3.2 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2 mil	50 µm	
Tensile Modulus			ISO 527-3
2% Secant, MD : 2.0 mil (50 µm)	42100 psi	290 MPa	
2% Secant, TD : 2.0 mil (50 µm)	36300 psi	250 MPa	
Tensile Stress			ISO 527-3
MD : Yield, 2.0 mil (50 µm)	2180 psi	15.0 MPa	
TD : Yield, 2.0 mil (50 µm)	2030 psi	14.0 MPa	
MD : Break, 2.0 mil (50 µm)	2760 psi	19.0 MPa	
TD : Break, 2.0 mil (50 µm)	2100 psi	14.5 MPa	
Tensile Elongation			ISO 527-3
MD : Break, 2.0 mil (50 µm)	440 %	440 %	
TD : Break, 2.0 mil (50 µm)	530 %	530 %	
Dart Drop Impact (2.0 mil (50 µm))	85 g	85 g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (50 µm)	240 g	240 g	
TD : 2.0 mil (50 µm)	180 g	180 g	
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	320 to 383 °F	160 to 195 °C	

Extrusion Notes

Blow up ration 1:2.5

