

Product Description

EL-LENE D777C is an Autoclave LDPE grade for extrusion coating/lamination.

Typical Applications

- General extrusion coating, extrusion lamination, co-extrusion coating
- For coating on different substrates; Aluminium foil, Paper, tarpaulin and flexible films(PET, OPP, Nylon,...)

Product Characteristics

- Very low neck-in
- Good processability (eg. edge stability, thickness control)
- Good adhesion on substrates
- Good seal strength and hot tack
- Low seal initiation temperature
- Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)

Physical properties

Property	Test Method	Value	Unit
Resin Properties			
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	7.00	g/10 min
Density	ASTM D 1505	0.918	g/cm ³
Melting Point	ASTM D 2117	107	°C
Vicat Softening Point	ASTM D 1525	85	°C
Brittleness Temperature	ASTM D 746	< - 70	°C
Film Properties			
Tensile Strength at Yield	ASTM D 882	MD : -*, TD : 110*	kg/cm ²
Tensile Strength at Break	ASTM D 882	MD : 190*, TD : 140*	kg/cm ²
Tensile Modulus, 2% Secant	ASTM D 882	MD : 2040*, TD : 2290*	kg/cm ²
Elongation at Break	ASTM D 882	MD : 375*, TD : 570*	%
Elmendorf Tear Strength	ASTM D 1922	MD : 280*, TD : 120*	g
Dart Impact Strength	ASTM D 1709	76*	g
Haze	ASTM D 1003	9*	%
Gloss	ASTM D 2457	35*	%

(*) Typical values obtained from film produced on a pilot line at TPE, 38 micron (BUR 2:1), MD: Machine Direction, TD: Transverse Direction

Note : Conversion factor for changing unit from kg/cm² to MPa is divided by 10.2

Processing Techniques

For extrusion coating of D777C, it is recommended to apply primer or corona treatment on substrate before coating for better adhesion.

The actual extrusion condition depends on the type of machine, size and thickness.

Generally, melt temperature 290-340 °C. should be obtained. Minimum recommended air gap is 150 mm.

Product Available Form

- Pellet

Product Handling

- 25 kg loose bag
- Big bag with specified weight

Product Technical Assistance

For technical assistance or further information on this product or any other EL-Lene products, please contact EL-Lene representatives.

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