



Product Data Sheet

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Titanvene™ LL0220AA

General Linear Low Density Film Applications

Titanvene™ LL0220AA is a linear low density polyethylene suitable for a wide variety of film applications with low gel content, good transparency, and excellent mechanical properties. Titanvene™ LL0220AA has no slip and anti-block additives (bare foot).

Applications

Titanvene™ LL0220AA is typically used for :

- Casting Film
- Blended Film
- Inner Layer Rotomoulding
- Cable Insulation

Recommended Processing Conditions ⁽¹⁾

Titanvene™ LL0220AA can be easily processed on normal polyethylene blow film machines at temperatures in the range of 170°C to 200°C.

Food Contact Compliance

Titanvene™ LL0220AA can be used in food contact applications. Please contact your nearest PT. Lotte Chemical Titan Nusantara representative for more detail of food contact compliance statements for the specific grade.

General Properties	Value ⁽²⁾	Unit	Test Method
Melt Flow Rate (190°C/2.16 kg)	2.0	g/10 min	ISO 1133 Condition 4
Nominal Density	0.920	g/cm ³	ISO 1183 Method D
Vicat Softening Point	103	°C	ISO 306
Melting Point	121	°C	ISO 3146 Method C

Mechanical Properties ⁽³⁾	Value ^{(2) (4)}	Unit	Test Method
Tensile Stress at Yield	MD 10 / TD 11	MPa	ISO 1184(E) Speed I
Elongation at Break	MD 850 / TD 950	%	ISO 1184(E) Speed I
Dart Impact Strength	80	gr	ISO 7765-1 Method A

Other Properties	Value ⁽²⁾	Unit	Test Method
Clarity	75	%	ASTM D1746
Gloss	50	%	ASTM D2457
Haze	15	%	ASTM D1003
COF	0.9		BS 2782, Method 824A

(1) The optimum processing conditions can be different from one machine to the others, depend on the mould and part design.

(2) The values shown are typical values obtained by averaging a number of tests. Small divergences from the quoted figures may occur.

(3) Measured on 38 microns film extruded at 2:1 blow ratio.

(4) MD = film machine direction. TD = film transversal direction.

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