



Product Data Sheet

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 :

- Blended film
- Cast film
- Inner layer Rotomoulding

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. TITAN Petrokimia 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 | g/10 min | ISO 1133 Condition 4 |
| Nominal Density | 920 | kg/m ³ | ISO 1183 Method D |
| Vicat Softening Point | 112 | °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 8 / TD 8 | MPa | ISO 1184(E) Speed I |
| Elongation at Break | MD 950 / TD 1250 | % | ISO 1184(E) Speed I |
| Dart Impact Strength | 110 | g | ISO 7765-1 Method A |

| Other Properties | Value ⁽²⁾ | Unit | Test Method |
|------------------|----------------------|------|----------------------|
| Clarity | 70 | % | AS D1746 |
| Gloss | 35 | % | AS D2457 |
| Haze | 23 | % | AS D1003 |
| COF | 0.8 | | 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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