

# Titanvene™ LL0214AA

Medium Density Polyethylene  
PT. TITAN Petrokimia Nusantara

Message:

Titanvene™ LL0214AA is a linear low density polyethylene suitable for a wide variety of extrusion coating applications with excellent draw-down, good seal ability, low neck-in and excellent adhesion properties. Titanvene™ LL0214AA has no slip and anti block additives (bare foot).

Applications

Titanvene™ LL0214AA is typically used for :

Tarpaulin Coating  
Car-mat coating  
Paper Coating  
General Flexible

Recommended Processing Conditions

Titanvene™ LL0214AA can be easily processed on normal polyethylene extrusion coating machines at temperatures in the range of 300°C to 325°C.

Food Contact Compliance Titanvene™

LL0214AA 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 Information  |                              |                   |             |
|--|------------------------------|-------------------|-------------|
| Features   | Food Contact Acceptable      |                   |             |
|  | Good Adhesion                |                   |             |
|  | Good Drawdown                |                   |             |
|  | Low Neck-In                  |                   |             |
| Uses   | Automotive Applications      |                   |             |
|  | Paper Coatings               |                   |             |
|  | Protective Coatings          |                   |             |
| Agency Ratings   | EC 1907/2006 (REACH)         |                   |             |
|  | EU 2002/72/EC                |                   |             |
|  | FDA 21 CFR 177.1520(a) 2 (i) |                   |             |
|  | FDA 21 CFR 177.1520(b)       |                   |             |
|  | FDA 21 CFR 177.1520(c) 2.1   |                   |             |
| Processing Method  | Extrusion Coating            |                   |             |
| Physical   | Nominal Value                | Unit              | Test Method |
| Density  | 0.922                        | g/cm <sup>3</sup> | ISO 1183/D  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                  | 14                           | g/10 min          | ISO 1133    |
| Environmental Stress-Cracking Resistance (10% Igepal, F50) | 300                          | hr                | ASTM D1693B |
| Mechanical   | Nominal Value                | Unit              | Test Method |
| Tensile Elongation (Break)                                 | 700                          | %                 | ASTM D638   |
| Flexural Strength (Yield)                                  | 9.81                         | MPa               | ASTM D790   |
| Thermal  | Nominal Value                | Unit              | Test Method |

| Vicat Softening Temperature            | 94.0            | °C               | ISO 306  |
|--|-----------------|------------------|----------|
| Melting Temperature (DSC) <sup>1</sup> | 120             | °C               | ISO 3146 |
| Extrusion                              | Nominal Value   | Unit             |          |
| Melt Temperature                       | 300 to 325      | °C               |          |
| Minimum Coating Weight                 | 7.0             | g/m <sup>2</sup> |          |
| Neck-in                                |                 |                  |          |
| 315°C <sup>2</sup>                     | 58.0            | mm               |          |
| 315°C <sup>3</sup>                     | 47.0            | mm               |          |
| NOTE                                   |                 |                  |          |
| 1.                                     | Method C        |                  |          |
| 2.                                     | Output 50 m/min |                  |          |
| 3.                                     | 150 m/min       |                  |          |

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