



Product Data Sheet

Titanvene™ HD5502GA

Blow Moulding Applications

Titanvene™ HD5502GA is a high density polyethylene of medium molecular weight designed for extrusion applications and in particular for blow moulding. Titanvene™ HD5502GA is characterised by easy extrusion and processing, very low odour and fuming, high stress cracking resistance and good impact strength.

Applications

Titanvene™ HD5502GA is specialised for blow moulding items such as bottles/containers up to 5 litres capacity for:

- Food products and households
- Toiletries
- Pharmaceuticals and personal products
- Industrial chemicals or oils

Other applications :

- Non-pressure pipe and conduits.
- Synthetic rattan

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HD5502GA can be easily processed on normal polyethylene blow moulding machines at temperatures in the range of 170°C to 200°C.

Food Contact Compliance

Titanvene™ HD5502GA 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) | 0.25 | g/10 min | ISO 1133 Condition 4 |
| Melt Flow Rate (190°C/21.6 kg) | 27 | g/10 min | ISO 1133 Condition 7 |
| Nominal Density | 952 | kg/m ³ | ISO 1183 Method D |
| Vicat Softening Point | 126 | °C | ISO 306 |
| Melting Point | 131 | °C | ISO 3146 Method C |

| Mechanical Properties ⁽³⁾ | Value ⁽²⁾ | Unit | Test Method |
|--------------------------------------|----------------------|-------------------|--------------------------|
| Tensile Strength at Yield | 26 | MPa | ISO/R 527 Type 2 Speed C |
| Elongation at Break | 1000 | % | ISO/R 527 Type 2 Speed C |
| Charpy Impact Strength | 10 | kJ/m ² | ISO 179 Type 1 Notch A |
| Flexural Modulus | 1500 | MPa | ISO 178 |
| Hardness (Shore D) | 65 | | ISO 868 Type D |
| BSCR ⁽⁴⁾ | 30 | Hours | PT. TITAN test method |

(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 compression molded plaques.
(4) Bottle Stress Crack Resistance

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