



PT. TITAN Petrokimia Nusantara

Product Data Sheet

Titanvene™ HM5250UA (Provisional)

Large Blow Moulding Container Applications

Titanvene™ HM5250UA is an ultra violet (UV) light stabilised high density polyethylene copolymer with a high molecular weight polyethylene grade supplied in pellet form for use in medium-large blow moulding applications. Titanvene™ HM5250UA is characterised by high environmental stress crack resistance, high impact strength, good rigidity and easy handling pellet form.

Applications

- Intermediate bulk containers.
- Agricultural containers

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HM5250UA can be easily processed on normal polyethylene blow moulding machines at temperatures in the range of 180°C to 230°C.

Food Contact Compliance

Titanvene™ HM5250UA 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/21.6 kg)	4.0	g/10 min	ISO 1133 Condition 7
Nominal Density	948	kg/m ³	ISO 1183 Method D
Vicat Softening Point	126	°C	ASTM D 1525
Melting Point	132	°C	ISO 3146 Method C

Mechanical Properties ⁽³⁾	Value ⁽²⁾	Unit	Test Method
Tensile Strength at Yield	25	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1100	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	25	kJ/m ²	ISO 179 Type 1 Notch A
Flexural Modulus	1400	MPa	ISO 178
Hardness (Shore D)	62		ISO 868 Type D
Brittleness Temperature	-75	°C	ASTM D746
ESCR Condition B, F50 (4)	>1000	F50, hours	ASTM 1693

- (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) Environment Stress Cracking Resistance 10% Igepal : CO-630

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