LOTTE CHEMICAL TITAN

Product Data Sheet

PT. Lotte Chemical Titan Nusantara. **(Formerly known as PT TITAN Petrokimia Nusantara)**
Head Office : Setiabudi 2 Building Lt 3, Suite 306-307 Jl HR Rasuna Said Kav 62, Jakarta - 12920, Indonesia
Phone: +62 21 52907008 Fax: +62 21 52907281
Site Location : Jl. Raya Merak Km.116 Cilegon 42436, Banten Indonesia Phone +62 254 572 468 Fax : +62 254 571290
Email: tsc@lottechem.co.id **Website :** www.lottechem.co.id

Titanvene™ LL3550UA

Rotational Moulding Applications

Titanvene™ **LL3550UA** is a medium density polyethylene, which has been specially developed for manufacturing large containers. Titanvene™ **LL3550UA** offers excellent UV light protection for outdoor exposure with high levels of UV light radiation where the use of inorganic pigments or carbon black is normally recommended.

Applications
Titanvene™ **LL3550UA** is designed for large rotational moulding containers, traffic cone and garbage bin.

Recommended Processing Conditions (1)
Titanvene™ **LL3550UA** can be easily processed on normal polyethylene rotational moulding machines at temperatures in the range of 180ºC to 230ºC.

Food Contact Compliance
Titanvene™ **LL3550UA** 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 (190ºC/2.16 kg)	5.0	g/10 min	ISO 1133 Condition 4
Nominal Density	0.932	g/cm^3	ISO 1183 Method D
Vicat Softening Point	115	ºC	ISO 306
Melting Point	124	ºC	ISO 3146 Method C

Mechanical Properties (3)	Value (2)	Unit	Test Method
Tensile Stress at Yield	15	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1500	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	24	kJ/m^2	ISO 179 Type 1 Notch A
Flexural Modulus	1000	MPa	ISO 178
Hardness (Shore D)	60		ISO 868 Type D
ESCR Condition B, F_{50} (4)	300	Hours	ASTM D1693

(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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