

Product Data Sheet

Titanvene™ LL3840UA

Rotational Moulding Applications

Titanvene™ LL3840UA is a butene co-polymer based linear low density polyethylene which has been specially developed for manufacturing large containers. Titanvene™ LL3840UA offers excellent UV resistance (UV6) for outdoor exposure with high levels of UV light radiation where the use of inorganic pigments or carbon black is normally recommended.

Applications

Titanvene™ LL3840UA is designed for large rotational moulding containers, traffic cone and garbage bin.

Recommended Processing Conditions ⁽¹⁾

Titanvene™ LL3840UA can be easily processed on normal polyethylene rotational moulding machines at temperatures in the range of 180°C to 230°C.

Food Contact Compliance

Titanvene™ LL3840UA 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 (190°C/2.16 kg)	4.0	g/10 min	ISO 1133 Condition 4
Nominal Density	0.936	g/cm ³	ISO 1183 Method D
Vicat Softening Point	117	°C	ISO 306
Melting Point	125	°C	ISO 3146 Method C
Mechanical Properties ⁽³⁾	Value ⁽²⁾	Unit	Test Method
Tensile Stress at Yield	17	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1600	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	12	kJ/m ²	ISO 179 Type 1 Notch A
Flexural Modulus	1100	MPa	ISO 178
Hardness (Shore D)	62	-	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

