

Titanvene™ LL3550UA

Medium Density Polyethylene
PT. TITAN Petrokimia Nusantara

Message:

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

Titanvene™ LL3550UA 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™ LL3550UA 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 UV Resistance		
Uses	Containers		
	Outdoor Applications		
Agency Ratings	FDA 21 CFR 177.1520(a) 2 (i)		
	FDA 21 CFR 177.1520(b)		
	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal, F50)	300	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	16.0	MPa	ISO 527-2/2
Tensile Strain ² (Break)	1600	%	ISO 527-2/2
Flexural Modulus	900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	12	kJ/m ²	ISO 179/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	115	°C	ISO 306
Melting Temperature (DSC) ³	124	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 230	°C	

NOTE	
1.	Speed C
2.	Speed C
3.	Method C

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