

Titanvene™ HD5218EA

High Density Polyethylene
PT. TITAN Petrokimia Nusantara

Message:

Titanvene™ HD5218EA is an easy flow high density polyethylene suitable for thin wall injection moulding application. Titanvene™ HD5218EA is characterised by its high flow rate suitable for fast process cycle and low moulding warpage.

Applications

Titanvene™ HD5218EA is designed for:

House wares.

Thin walled containers.

Toys.

Recommended Processing Conditions

Titanvene™ HD5218EA can be easily processed on normal polyethylene injection moulding machines at temperatures in the range of 200°C to 240°C.

Food Contact Compliance

Titanvene™ HD5218EA 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	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Flow		
	Low Warpage		
Uses	Household Goods		
	Thin-walled Containers		
	Toys		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	18	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	3.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	23.0	MPa	ISO 527-2/2
Tensile Strain ² (Break)	250	%	ISO 527-2/2
Flexural Modulus	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ISO 306

Melting Temperature (DSC) ³	130	°C	ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 240	°C	
NOTE			
1.	Speed C		
2.	Speed C		
3.	Method C		

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Recommended distributors for this material

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