Titanvene™ HD5502GA

High Density (MMW) Polyethylene

PT. TITAN Petrokimia Nusantara

Message:

Titanvene™ HD5502GA is a high density polyethylene of medium molecular weight designed for extrusion applications and in particular for blow moulding. Titanvene™ HD5502GA is characterised by easy extrusion and processing, very low odour and fuming, high stress cracking resistance and good impact strength.
Applications
Titanvene™ HD5502GA is specialised for blow moulding items such as bottles/containers up to 5 litres capacity for:
Food products and households
Toiletries
Pharmaceuticals and personal products
Industrial chemicals or oils
Other applications :
Non-pressure pipe and conduits.
Synthetic rattan
Recommended Processing Conditions
Titanvene™ HD5502GA can be easily processed on normal polyethylene blow moulding machines at temperatures in the range of 170°C to 200°C.
Food Contact Compliance
Titanvene™ HD5502GA 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 Processability
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	Low to No Fumes
	Low to No Odor
Uses	Blow Molding Applications
	Blown Containers
	Conduit
	Food Packaging
	Industrial Containers
	Pharmaceutical Packaging
	Piping
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Blow Molding
	Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm³	ISO 1183/D

Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.38	g/10 min	
190°C/21.6 kg	28	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	150	hr	ASTM D1693B
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (Yield)	26.0	MPa	ISO 527-2/2
Tensile Strain [2] (Break)	1000	%	ISO 527-2/2
Flexural Modulus	1500	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	11	kJ/m^2	ISO 179/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	126	°C	ISO 306
Melting Temperature (DSC) [3]	131	°C	ISO 3146
NOTE			
1.	Speed C		
2.	Speed C		
3.	Method C		

Recommended distributors for this material

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