

TITANEX® HM4560UA

High Density Polyethylene

Lotte Chemical Titan (M) Sdn. Bhd.

Message:

HM4560UA is an UV light stabilized, pelleted high molecular weight, high density polyethylene Hexene-1 resin for medium-large blow molding.

Applications:

Intermediate bulk containers, agricultural containers, industrial chemical containers and pallets.

Characteristics:

Excellent stress crack resistance, excellent resistance to most chemicals and outstanding rigidity with high impact strength and high melt strength.

General Information			
Features	Good Chemical Resistance		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Melt Stability		
	Light Stabilized		
Uses	Containers		
	Industrial Containers		
	Pallets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (50°C, 1.90 mm, 10% Igepal, F50)	> 4000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	23.5	MPa	
Break	34.3	MPa	
Tensile Elongation (Break)	> 600	%	ASTM D638
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Vicat Softening Temperature	125	°C	ASTM D1525
Injection	Nominal Value	Unit	

Rear Temperature	180 to 220	°C
Middle Temperature	190 to 230	°C
Front Temperature	190 to 230	°C

NOTE

1. bent strip

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