

Halene H B5500

High Density (HMW) Polyethylene
Haldia Petrochemicals Ltd.

Message:

B5500 is a HM-HDPE Blow Molding Grade, produced by the Mitsui CX Process.
This resin is particularly recommended for medium to Large Bulk Containers (~ 120 liter) for Chemicals, Detergent or Lube Oils.
B5500 combines exceptional processability with high rigidity, excellent mechanical properties and impact resistance.

General Information			
Features	Rigidity, high		
	High molecular weight		
	Impact resistance, good		
	Workability, good		
Uses	Blow molding applications		
	Container		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	8.0	g/10 min	ASTM D1238
190°C/5.0 kg	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, molding	28.0	MPa	ASTM D638
Fracture, molding	40.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield, molding	10	%	ASTM D638
Fracture, molding	1000	%	ASTM D638
Flexural Modulus (Compression Molded)	1000	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	No Break		ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	129	°C	ASTM D1525 ⁴
Peak Melting Temperature	131	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	200	°C	
Cylinder Zone 2 Temp.	210	°C	
Cylinder Zone 3 Temp.	215	°C	
Cylinder Zone 4 Temp.	210	°C	
Die Temperature	200 - 210	°C	
Extrusion instructions			
Parison Temperature: 190 to 210°C Cooling Water for Mold: 20 to 25°C			
NOTE			
1.	23°C		
2.	50 mm/min		
3.	50 mm/min		
4.	压力1 (10N)		

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