

Halene H E5201S

High Density Polyethylene

Haldia Petrochemicals Ltd.

Message:

E5201S is a broad molecular weight distribution HDPE, produced by the Mitsui CX Process.

The Grade is used for General Purpose Blow Molding Applications.

It can also be used for Double Walled Corrugated Pipes & General Purpose Pipe Applications

E5201S combines exceptional processability and excellent mechanical properties.

General Information			
Features	Workability, good		
	Wide molecular weight distribution		
Uses	Bellows		
	Blow molding applications		
	Piping system		
	General		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.958	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, Compression Molded, F50)	200	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, molding	25.0	MPa	ASTM D638
Fracture, molding	36.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield, molding	11	%	ASTM D638
Fracture, molding	> 600	%	ASTM D638
Flexural Modulus (Compression Molded)	1100	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	150	J/m	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	130	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	160	°C	
Die Temperature	160 - 165	°C	
Extrusion instructions			
Parison Temperature: 165 to 170°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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