

Halene H E5201

High Density Polyethylene

Haldia Petrochemicals Ltd.

Message:

E 5201 is a broad molecular weight distribution HDPE, produced by the Mitsui CX Process. This resin is particularly recommended for high ESCR Blow Molding, Cable Sheathing & Jacketing Compound, Lamination Film, General Purpose Film and Extrusion Applications.

E 5201 combines exceptional processability with high ESCR and excellent mechanical properties.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Wide molecular weight distribution		
Uses	Films		
	Laminate		
	Blow molding applications		
	Cable sheath		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.952	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)	> 600	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	23.0	MPa	ASTM D638
Fracture, molding	34.0	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	> 1000	%	ASTM D638
Flexural Modulus (Compression Molded)	950	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	140	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	78.0	°C	ASTM D648
Vicat Softening Temperature	125	°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: 160-170°C Cooling Water for Mold: 20-25°C			
NOTE			
1.	23°C		
2.	50 mm/min		
3.	50 mm/min		
4.	压力1 (10N)		

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