

Halene H P5200

High Density Polyethylene

Haldia Petrochemicals Ltd.

Message:

P5200 is a pipe grade HDPE, produced by the Mitsui CX Technology.

This resin is recommended for PE 63 compliant pressure pipes.

P5200 combines excellent processability with good creep resistance, ESCR and mechanical properties.

General Information			
Features	Good Creep Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
Uses	Piping		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.948	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.80	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 ¹			ASTM D638
Yield, Compression Molded	25.0	MPa	
Break, Compression Molded	38.0	MPa	
Tensile Elongation ²			ASTM D638
Yield, Compression Molded	7.0	%	
Break, Compression Molded	750	%	
Flexural Modulus (Compression Molded)	900	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	180	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	67.0	°C	ASTM D648
Vicat Softening Temperature	121	°C	ASTM D1525 ³
Oxidation Induction Time	> 30	min	ASTM D3895
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	150 to 180	°C	
Cylinder Zone 2 Temp.	150 to 180	°C	

Cylinder Zone 3 Temp.	150 to 180	°C
Cylinder Zone 4 Temp.	150 to 180	°C
Cylinder Zone 5 Temp.	150 to 180	°C
Die Temperature	170 to 180	°C

NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	Loading 1 (10 N)	

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