

Halene H P5300

High Density Polyethylene
Haldia Petrochemicals Ltd.

Message:

P5300 is a pipe grade HDPE, produced by the Mitsui CX Process.
This resin is recommended for PE 112 high-pressure pipe applications.
P5300 combines exceptional processability with high creep resistance, high ESCR and excellent mechanical properties.
P5300 has a MRS 11.2 MPa according to ISO 9080 and is designated PE 112 according to ISO 12162:1995.

General Information			
Features	Good Creep Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
Uses	Piping		
Agency Ratings	ISO 12162 PE 112		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.948	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.25	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)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	26.0	MPa	
Break, Compression Molded	41.0	MPa	
Tensile Elongation ²			ASTM D638
Yield, Compression Molded	8.0	%	
Break, Compression Molded	1000	%	
Flexural Modulus (Compression Molded)	1000	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	270	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525 ³
Peak Melting Temperature	131	°C	ASTM D3418
Oxidation Induction Time	> 30	min	ASTM D3895

Critical Pressure for Crack Propagation (0°C)	> 1.20	MPa	ISO 13477
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160 to 220	°C	
Cylinder Zone 2 Temp.	160 to 220	°C	
Cylinder Zone 3 Temp.	160 to 220	°C	
Cylinder Zone 4 Temp.	160 to 220	°C	
Cylinder Zone 5 Temp.	160 to 220	°C	
Die Temperature	220	°C	
NOTE			
1.	27°C		
2.	50 mm/min		
3.	Loading 1 (10 N)		

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