

SABIC® HDPE P5510N

High Density Polyethylene

SABIC Americas, Inc.

Message:

Provisional Data Sheet

P5510N is a grade, which has a high density (class MRS 8 - PE 80) and a bimodal distribution of the molecular mass. An universal grade for pipe extrusion which, due to a keen combination of properties. It can be used for telecommunication, corrugated and spiral pipes.

P5510N is a natural High Density Polyethylene (HDPE) resin specifically designed for Pipe Extrusion. It provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength.

General Information			
Features	Bimodal Molecular Weight Distribution		
	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
Uses	Corrugated Pipe		
	Piping		
	Telecommunications		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.944	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	10	g/10 min	
190°C/5.0 kg	0.43	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	61		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	850	MPa	ISO 527-2/1BA/50
Tensile Stress (Yield, 2.00 mm, Compression Molded)	22.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Yield, 2.00 mm, Compression Molded)	10	%	ISO 527-2/1BA/50
Flexural Creep Modulus - 4 point, 1 min-value	1.00	GPa	DIN 19537-2
Oxidation Induction Time (210°C)	> 20	min	EN 728
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	23	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	67.0	°C	ISO 306

Extrusion	Nominal Value	Unit
Melt Temperature	190 to 220	°C
NOTE		
1.	23°C	

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