

# SABIC® HDPE P5510NT

High Density Polyethylene

SABIC Americas, Inc.

Message:

Provisional Data Sheet

P5510NT is high density Polyethylene (Natural Color) with a bimodal distribution of molecular mass. It is specifically designed for non - pressure Pipe applications. It provides good stress crack resistance properties (ESCR).

Typical Applications

pipes for drinking water, irrigation, corrugated, Tele-communication application and drainage pipes. It is also recommended for manufacture of containers.

General Information			
Features	Bimodal Molecular Weight Distribution		
	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
Uses	Containers		
	Corrugated Pipe		
	Irrigation Applications		
	Piping		
	Telecommunications		
	Wire & Cable Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.945	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	12	g/10 min	
190°C/5.0 kg	0.45	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		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)	8.0	%	ISO 527-2/1BA/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	8.0	kJ/m <sup>2</sup>	


23°C	23	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	67.0	°C	ISO 306
Melting Temperature (DSC)	123 to 127	°C	DIN 53765
Oxidation Induction Time (210°C)	> 20	min	EN 728
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	23°C		

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