



P5510NT (Provisional Data sheet)

High Density Polyethylene for Pipes

Product Description

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.

Typical data

Properties	Unit	Value ⁽¹⁾	Method
Resin Properties			
Melt Flow Rate @ 190°C & 5 kg load @ 190°C & 21.6 kg load	g/10 min.	0.45 12	ISO 1133
Density @ 23°C	kg/m ³	945	ISO 1183
Mechanical Properties⁽²⁾			
Tensile Strength @ Yield ⁽³⁾	MPa	22	ISO 527-2
Tensile Elongation @ Yield ⁽³⁾	%	8	
Tensile Modulus ⁽³⁾	MPa	850	
Charpy Impact Notched @ 23°C @ -30°C	kJ/m ²	23 8	ISO 179
Hardness (Shore D)		-	60
Thermal Properties			
Vicat Softening Point @ 50N (VST/B)	°C	67	ISO 306
DSC (Melting Point)	°C	123 - 127	DIN 53765
OIT (210°C)	Min	>20	EN 728

(1) Typical values; not to be construed as specification limits.

(2) Based on Compression molded sheet

(3) Test specimen according to ISO 527-2 type 1 BA, thickness 2mm with 50mm/min test speed

Processing Conditions

Typical processing conditions for P5510NT

Melt temperature: 190 - 220°C

Food Regulation

P5510NT grade is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

Storage and Handling

Polyethylene material / compound should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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