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POLYMERS

SABIC® HDPE PIPE P6006N

PRODUCT DESCRIPTION

P6006N is a grade which has a high density (class MRS 10) 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.

TYPICAL APPLICATIONS

P6006N 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.

TYPICAL DATA

PROPERTIES	Unit	Value [1]	Test Method
Melt Flow Rate			
@ 190°C & 5 kg load	g/10 min	0.23	ISO 1133
@ 190°C & 21.6 kg load		6.2	
Density @ 23°C	Kg/m^3	949	ISO 1183
MECHANICAL PROPERTIES [2]			
Tensile Strength @ Yield[3]	MPa	23	ISO 527-2
Tensile Elongation @ Yield[3]	%	10	
Tensile Modulus[3]	MPa	850	
Charpy Impact Notched a t 23°C	kJ/m^2	25	ISO 179
Flexural creep modulus	MPa	1050	DIN 19537-2
(4 point, 1 min-value)			
Hardness (Shore D)	-	64	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature	°C	74	ISO 306
Brittleness Temperature	°C	<-80	ASTM D746-72
OIT (210 C)	Min	> 20	EN 728