

P6006N Natural (Tentative Datasheet)
for Pipe Extrusion

P6006N is a natural High Density Polyethylene (HDPE) resin specifically designed for Pipe Extrusion. It provides excellent stress crack resistance

Typical Applications

SABIC HDPE P6006N (Natural) is a grade, which has a high density (class MRS 10 - PE 100) and a bimodal distribution of the molecular mass. An universal grade for pipe extrusion which, due to a keen combination of properties, is particularly suitable for drinking water, gas distribution waste water pipes. It is also can be used for corrugated and spiral pipes.

properties (ESCR) combined with very good long term hydrostatic strength.

Polymer Properties	Unit	Values	Test Method
Melt Flow Rate (MFR) (190oC/5.0 kg)	g/10 min.	0.22	ISO 1133
(190oC/21.6 kg)	6.2		
Density	kg/m3	948	ISO 1183
Mechanical Properties			
Tensile Test			
Stress at Yield	Mpa	23	
Strain at Yield	%	10	
		ISO 527	
Tensile Modulus (23 °C, v = 1 mm/min, Secant)	Mpa	850	
Charpy Impact Notched at 23oC	kJ/m2	25	ISO 179
Flexural creep modulus (4 point, 1 min-value)	MPa	1050	DIN 19537-2
Hardness Shore D	-	64	ISO 868
Thermal Properties			
	o		
Vicat Softening Temperature		C	74 ISO 306
	o		
ASTM			
Brittleness Temperature	C	<-80	D746-72
OIT 210oC	min	> 20	EN 728

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but

because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against infringement.

Notes

Typical properties; not to be construed as specifications.

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