

POLYMERS

SABIC[®] HDPE PIPE P4808N

PRODUCT DESCRIPTION

P4808 is a natural bimodal high density polyethylene (HDPE) resin, specifically designed for non-pressure pipe extrusion application. It provides good stress crack resistance properties (ESCR).

TYPICAL APPLICATIONS

Non-Pressure pipe applications such as irrigation, cable conduits, corrugated & gravity pipe segments.

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		7	
Density @ 23°C	Kg/m ³	949	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 at 23°C	kJ/m ²	23	ISO 179
Hardness (Shore D)	-	62	ISO 868
THERMAL PROPERTIES			
Vicat Softening Temperature	°C	74	ISO 306
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 P4808N

Melt temperature: 190-220°C