

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

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

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 lead to quality deterioration and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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