

SABIC® HDPE P4909NA

HIGH DENSITY POLYETHYLENE FOR PIPES

DESCRIPTION

P4909NA 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 PROPERTY VALUES

Revision 20240403

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 190°C & 5 kg load	0.34	g/10 min	ISO 1133
Density			
at 23°C	948	kg/m³	ASTM D1238
MECHANICAL PROPERTIES			
Tensile Strength at Yield ⁽¹⁾	22	MPa	ASTM D638
Tensile Elongation at Yield	8	%	ISO 527-1/-2
Tensile modulus	850	MPa	ASTM D638
Charpy Impact Notched @ 23°C	23	kJ/m²	ISO 179
Hardness (Shore D) ⁽²⁾	62	-	ASTM D2240
THERMAL PROPERTIES			
Vicat Softening Point	74	°C	ASTM D1525
OI (210°C)	>20	Minutes	EN 728

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

(2) Based on Compression molded sheet

PROCESSING CONDITIONS

Typical processing conditions for P4909NA are: Melt temperature: 190 - 220°C

FOOD REGULATION

P4909NA 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 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 such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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CHEMISTRY THAT MATTERS™



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