SABIC® HDPE P952

HIGH DENSITY POLYETHYLENE FOR PIPES

DESCRIPTION

P952 is a natural high density polyethylene (HDPE) resin, specifically designed for non-pressure pipe extrusion application.

TYPICAL APPLICATIONS

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

TYPICAL PROPERTY VALUES

Revision 20221006

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR) (1)			
@ 190°C & 5 kg load (1)	0.33	g/10 min	ISO 1133
@ 190°C & 21.6 kg load	9	g/10 min	ISO 1133
Density at 23°C	952	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile Strength at Yield (2)	24	MPa	ASTM D638
Tensile Elongation at Yield	9	%	ISO 527-1/-2
Tensile modulus	1500	MPa	ASTM D638
Charpy Impact Notched @ 23°C	250	J/m	ASTM D6110
Hardness (Shore D) (3)	55	-	ASTM D2240
THERMAL PROPERTIES			
Vicat Softening Point	73	°C	ASTM D1525

(1) Typical values; not to be construed as specification limits
(2) Test specimen according to ISO 527-2 type1 BA, thickness 2 mm with 50mm/min test speed
(3) Based on Compression molded sheet

PROCESSING CONDITIONS

Typical processing conditions for P952 are: Melt temperature: 190 - 220°C

FOOD REGULATION

P952 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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