

SABIC® HDPE P5305N

HIGH DENSITY POLYETHYLENE FOR PIPE

DESCRIPTION

HDPE P5305N is a multimodal high density polyethylene Natural grade specially developed for non-pressure pipe applications. The material offers high stiffness, toughness and excellent combination of stiffness/ESCR.

TYPICAL APPLICATIONS

P5305N is specially designed for non-pressure pipe Applications. The grade is food contact approved.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR) ⁽¹⁾ @ 190°C & 21.6 kg load ⁽¹⁾	4.5	g/10 min	ISO 1133
Density at 23°C	953	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)	50	Hrs	ISO 16770
Tensile modulus	1050	MPa	ASTM D638
Tensile Stress at Yield	26	MPa	ISO 527-1/-2
Tensile Strain at Yield	10	%	ISO 527-1/-2
Hardness (Shore D)	62	-	ASTM D2240

(1) Typical values: not to be construed as specification limits.

PROCESSING CONDITIONS

Recommended melt temperature 190 - 220°C