

SABIC® P5616N

HDPE P5616N is a multimodal high density polyethylene Natural grade specially developed for f non-pressure pipe applications. The material offers easy flow, higher stiffness, very good ESCR and sufficient impact strength.

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	ASTM D1505

Melt Flow	16 g/10 min @Load 21.6 kg, Temperature 190 °C	16 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133
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Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240

Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527-1/-2
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Elongation at Yield	8.0 %	8.0 %	ISO 527-1/-2
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Tensile Modulus	1.30 GPa	189 ksi	ASTM D638
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Tensile Impact Strength	>= 75.0 kJ/m ² @Temperature -30.0 °C	>= 35.7 ft-lb/in ² @Temperature -22.0 °F	ASTM D790
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Descriptive Properties			
FNCT (3.5 MPa, 2 % igeal BC/9, 80°C)	>8 hrs		ISO 16770