

SABIC® P5307N

HDPE P5307N is a multimodal high density polyethylene Natural grade specially developed for non-pressure pipe applications. The material offers high stiffness, good processability and excellent combination of stiffness/ESCR.

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505

Melt Flow	8.0 g/10 min @Load 21.6 kg, Temperature 190 °C	8.0 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	10 %	10 %	ISO 527-1/-2
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Tensile Modulus	1.25 GPa	181 ksi	ASTM D638
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Tensile Impact Strength	90.0 kJ/m ² @Temperature -30.0 °C	42.8 ft-lb/in ² @Temperature -22.0 °F	ISO 8256
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Descriptive Properties			
FNCT (3.5 MPa, 2 % igepal BC/9, 80°C)	>40 hrs		ISO 16770