

SABIC® P5305N

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.

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D1505
Melt Flow	4.5 g/10 min @Load 21.6 kg, Temperature 190 °C	4.5 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength, Yield	26.0 MPa	3770 psi	ISO 527-1/-2
Elongation at Yield	10 %	10 %	ISO 527-1/-2
Tensile Modulus	1.05 GPa	152 ksi	ASTM D638
Descriptive Properties			
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)	50 hrs		ISO 16770