

SABIC® P6006NA

P6006NA is a high density Polyethylene (potentially ASTM PE4710 cell class requirements) with multimodal distribution of the molecular mass. This is natural color grade suitable for pipe extrusion with excellent combination of properties. It is also suitable for use in telecommunication ducting, corrugated pipes and spiral pipes.

Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Oxidative Induction Time (OIT)	>= 20 min @Temperature 210 °C	>= 20 min @Temperature 410 °F	EN 728
Melt Flow	0.23 g/10 min @Load 5.00 kg, Temperature 190 °C	0.23 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133
	6.2 g/10 min @Load 21.6 kg, Temperature 190 °C	6.2 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	Test specimen according to ISO 527-2 type 1 BA, thickness 2mm with 50mm/min test speed.; ASTM D2240
Tensile Strength, Yield	23.0 MPa	3340 psi	Based on compression molded sheet; ASTM D638
Elongation at Yield	10 %	10 %	ISO 527-1/-2
Creep Strength	1050 MPa	152000 psi	Flexural Creep Modulus (4point,1min); DIN 19537-2
Tensile Modulus	0.850 GPa	123 ksi	ASTM D638
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	74.0 °C	165 °F	@ 50N (VST/B); ISO 306