

SABIC® P6006LS

P6006LS is black compound high density (classified as PE112) specifically designed for pressure Pipe low sagging (LS) applications. It delivers exceptional low sag performance for large-diameter pipes and pressure pipes with low standard dimension ratio (SDR).

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D1505
Oxidative Induction Time (OIT)	20 min @Temperature 210 °C	20 min @Temperature 410 °F	EN 728
Carbon Black Loading	2.25 %	2.25 %	ISO 6964
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
	6.4 g/10 min @Load 21.6 kg, Temperature 190 °C	6.4 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
Elongation at Break	>= 350 %	>= 350 %	ISO 527
Tensile Modulus	0.850 GPa	123 ksi	Test specimen according to ISO 527-2 type 1 BA, thickness 2mm with 50mm/min test speed.; ASTM D638
Charpy Impact, Notched	2.60 J/cm ²	12.4 ft-lb/in ²	Based on compression molded sheet; ISO 179
Tensile Creep Modulus, 1000 hours	360 MPa	52200 psi	ISO 899-1