

SABIC® P6006AD

HP6006AD is black compound high density polyethylene (classified as PE112) specially designed for pressure pipe applications. It delivers exceptional processing performance.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.959 g/cc	0.0346 lb/in ³	ASTM D1505
Oxidative Induction Time (OIT)	>= 30 min @Temperature 210 °C	>= 30 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	Test specimen according to ISO 527-2 type 1 BA, thickness 2mm with 50mm/min test speed.; ASTM D638
Elongation at Break	>= 350 %	>= 350 %	Test specimen according to ISO 527-2 type 1 BA, thickness 2mm with 50mm/min test speed.; ISO 527
Tensile Modulus	0.900 GPa	131 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	100HR; Based on compression molded sheet; ISO 527-2