

SABIC P6006 Black High Density Polyethylene for Pipes

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

Material Notes:

Product Description: P6006 is a black compound high density (class MRS 8 - PE 80) polyethylene with bimodal distribution of molecular mass. It is specifically designed for Pressure Pipe applications. It provides excellent stress crack resistance properties combined with very good long term hydrostatic strength. **Typical Applications:** Pressure pipes for drinking water, irrigation, gas distribution and waste water pipes. It is also recommended for the manufacture of chemical liners and containers. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-P6006-Black-High-Density-Polyethylene-for-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.959 g/cc	0.0346 lb/in ³	ISO 1183
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
	6.2 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	ISO 868
Tensile Strength, Yield	23.0 MPa @Thickness 2.00 mm	3340 psi @Thickness 0.0787 in	ISO 527-2
Elongation at Yield	9.0 % @Thickness 2.00 mm	9.0 % @Thickness 0.0787 in	ISO 527-2
Tensile Modulus	0.900 GPa @Thickness 2.00 mm	131 ksi @Thickness 0.0787 in	ISO 527-2
Charpy Impact, Notched	1.30 J/cm ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	2.60 J/cm ² @Temperature 23.0 °C	12.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	74.0 °C	165 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 220 °C	374 - 428 °F	

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