



PE 100 Black Datasheet

Description:	PE 100 Black is a High Density Polyethylene, black colored resin. The product is classified as PE 100 and provides excellent environmental stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength. It has very high impact and stiffness properties.
Typical Applications:	Leading PE for pressure pipe, for gas and water distribution, sewage and drainage.

Moulding compound extruded	PE,EACH,50 T 003
Extruded to moulding compound standard	DIN EN ISO 17855-1
Moulding compound pressed	PE,QACH,50 T 003
Pressed to moulding compound standard	DIN EN ISO 17855-1
Density, g/cm ³ , DIN EN ISO 1183	0.960
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1100
Yield stress, MPa, DIN EN ISO 527	23
Elongation at yield, %, DIN EN ISO 527	9
Impact strength, kJ/m ² , DIN EN ISO 179	without break
Notched impact strength Charpy, kJ/m ² , DIN EN ISO 179-1eA	25
Dielectric strength kV/mm, DIN IEC 60243-1	47
Ball indentation hardness, MPa, DIN EN ISO 2039-1	40
Shore hardness D (15 s), DIN EN ISO 868	64
Mean coefficient of linear thermal expansion, K ⁻¹ , ISO 11359-2	1.8 x 10 ⁻⁴
Thermal conductivity, W/m * K, DIN EN 12667	0.38
Surface resistivity, Ohm, DIN IEC 60093	≥ 1013
Temperature range, °C	-50 to +80
Fire behaviour DIN 4102	DIN 4102 B2 normal flammability (self-assessment without test certificate)
Comments	
Food compliance EU 10/2011	yes
Food compliance FDA	no



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