

Technical data sheet – Natural PE-HD

Property / Standard	Value
Extrusion compound standard	DIN EN ISO 17855-1
Compression moulding compound	PE-HD,,QN,50-T003/006/012
Compression moulding compound standard	DIN EN ISO 17855-1
Density (DIN EN ISO 1183)	0.95 g/cm ³
Tensile modulus of elasticity (DIN EN ISO 527)	1,100 MPa
Yield stress (DIN EN ISO 527)	23 MPa
Elongation at yield (DIN EN ISO 527)	9 %
Impact resistance (DIN EN ISO 179)	no break
Charpy impact strength (DIN EN ISO 179-1eA)	16 kJ/m ²
Brinell hardness (DIN EN ISO 2039-1)	43 MPa

Shore D hardness (15 s) (DIN EN ISO 868)	65
Mean coefficient of thermal expansion (ISO 11359-2)	$1.8 \times 10^{-4} \text{ K}^{-1}$
Thermal conductivity (DIN EN 12667)	0.38 W/m * K
Surface resistivity (DIN IEC 60093)	$\geq 10^{13} \text{ Ohm}$
Operating temperature range	-50 to +80 °C
Burning behaviour (DIN 4102)	DIN 4102 B2 normally flammable (Self-assessment without test certificate)
EU food compliance EC 10/2011	yes
FDA food compliance	yes

Technical data sheet – Black PE-HD

Property / Standard	Value
Extrusion compound	PE-HD,,EC,50-T003/006/012
Extrusion compound standard	DIN EN ISO 17855-1
Compression moulding compound	PE-HD,,QC,50-T003/006/012
Compression moulding compound standard	DIN EN ISO 17855-1
Density (DIN EN ISO 1183)	0.96 g/cm ³
Tensile modulus of elasticity (DIN EN ISO 527)	1,100 MPa
Yield stress (DIN EN ISO 527)	23 MPa
Elongation at yield (DIN EN ISO 527)	9 %
Impact resistance (DIN EN ISO 179)	no break
Charpy impact strength (DIN EN ISO 179-1eA)	16 kJ/m ²

Brinell hardness (DIN EN ISO 2039-1)	43 MPa
Shore D hardness (15 s) (DIN EN ISO 868)	65
Mean coefficient of thermal expansion (ISO 11359-2)	$1.8 \times 10^{-4} \text{ K}^{-1}$
Thermal conductivity (DIN EN 12667)	0.38 W/m * K
Surface resistivity (DIN IEC 60093)	$\geq 10^{13} \text{ Ohm}$
Operating temperature range	-50 to +80 °C
Burning behaviour (DIN 4102)	DIN 4102 B2 normally flammable (Self-assessment without test certificate)
EU food compliance EC 10/2011	yes
FDA food compliance	no

Technical data sheet – PE 100 Blue 340

Property / Standard	Value
Extrusion compound	PE-HD,,EACH,57-T003/T006
Extrusion compound standard	DIN EN ISO 17855-1
Density (DIN EN ISO 1183)	0.94 g/cm ³
Tensile modulus of elasticity (DIN EN ISO 527)	900 MPa
Yield stress (DIN EN ISO 527)	22 MPa
Elongation at yield (DIN EN ISO 527)	9 %
Impact resistance (DIN EN ISO 179)	no break
Charpy impact strength (DIN EN ISO 179-1eA)	21 kJ/m ²
Dielectric strength (DIN IEC 60243-1)	50 kV/mm
Brinell hardness (DIN EN ISO 2039-1)	43 MPa

Shore D hardness (15 s) (DIN EN ISO 868)	64
Mean coefficient of thermal expansion (ISO 11359-2)	$1.8 \times 10^{-4} \text{ K}^{-1}$
Surface resistivity (DIN IEC 60093)	$\geq 10^{13} \text{ Ohm}$
Operating temperature range	-50 to +80 °C
Burning behaviour (DIN 4102)	DIN 4102 B2 normally flammable (Self-assessment without test certificate)
EU food compliance EC 10/2011	yes
FDA food compliance	yes

Technical data sheet – PE 1000

Property / Standard	Value
Compression moulding compound	PE,QN,33 G 000
Compression moulding compound standard	DIN EN ISO 17855-1
Density (DIN EN ISO 1183)	0.93 g/cm ³
Tensile modulus of elasticity (DIN EN ISO 527)	700 MPa
Water absorption (DIN EN ISO 62)	< 0.01 %
Yield stress (DIN EN ISO 527)	19 MPa
Elongation at yield (DIN EN ISO 527)	11 %
Impact resistance (DIN EN ISO 179)	no break

Dielectric strength (DIN IEC 60243-1)	44 kV/mm
Sand Slurry	100 %
Brinell hardness (DIN EN ISO 2039-1)	30 MPa
Shore D hardness (15 s) (DIN EN ISO 868)	60
Mean coefficient of thermal expansion (ISO 11359-2)	$1.8 \times 10^{-4} \text{ K}^{-1}$
Thermal conductivity (DIN EN 12667)	0.38 W/m * K
Vicat B (DIN EN ISO 306)	82 °C
Molecular weight	$\geq 4,000,000$
Surface resistivity (DIN IEC 60093)	$\geq 10^{13} \text{ Ohm}$
Operating temperature range	-260 to +80 °C

Burning behaviour (DIN 4102)	DIN 4102 B2 normally flammable (Self-assessment without test certificate)
EU food compliance EC 10/2011	yes
FDA food compliance	yes
Notes	EU food compliance applies to natural, black, green and dark blue colours. FDA food compliance applies to natural and green colours.