

Technical data sheet

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General technical data

Material:	HDPE
Shape:	Pellets
Colour:	standard grey
Application:	Extrusion, extrusion blow molding
Source:	Post-consumer packaging (100%)
Filtration:	100 µm
Packaging:	Bigbag

Physical Properties

Property	Norm	Value	Unit
Ash residue	DIN EN ISO 3451-1A	0,85	wt%
Melt mass flow rate MFR (190 °C/2,16 kg)	DIN EN ISO 1133	0,8	g/10 min
Melt mass flow rate MFR (190 °C/5 kg)	DIN EN ISO 1133	1,32	g/10 min
Density (23 °C)	DIN EN ISO 1183-1A	0,95	g/cm ³
HDPE content (DSC)	DIN EN ISO 11357	99,5	wt%
PP content (DSC)	DIN EN ISO 11357	0,5	wt%

Mechanical properties

Property	Norm	Value	Unit
Tensile strength (23 °C)	DIN EN ISO 527-1, - 2, type 1A	25	MPa
Elongation at yield (23 °C)	DIN EN ISO 527-1, - 2, type 1A	9	%
Tensile modulus (23 °C)	DIN EN ISO 527-1, - 2, type 1A	837	MPa
Flexural modulus (23 °C)	DIN EN ISO 178	750	MPa
Charpy unnotched impact strength (23 °C)	DIN EN ISO 179-1, 1eU	NB	-
Charpy notched impact strength (23 °C)	DIN EN ISO 179-1, 1eA	31	kJ/m ²
Charpy notched impact strength (-30 °C)	DIN EN ISO 179-1, 1eA	4,5	kJ/m ²
BTT stress crack resistance (F50 at 50 °C, c = 100 %)	ASTM D 1693	>96	h

This product information corresponds to our current technical knowledge and experiences. The data given reflect typical properties not to be construed as specification limits. Due to the wide range of possible influences during processing and application, no legally binding assurance of specific properties or suitability for a specific purpose can be derived from this. The test results of our quality tests do not release the buyer from his own incoming goods inspection. The product is not suitable for direct food contact or medical applications. We reserve the right to perform changes.