Kunststoff Recycling Grünstadt GmbH

RecyPrime 006 200

Technical data sheet

2022, 30th Nov., rev. no. 2022_2

General technical data

Material:	**HDPE**
Shape:	**Pellets**
Colour:	**white**
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	**≤ 0,12**	wt%
Melt mass flow rate MFR (190 °C/2,16 kg)	DIN EN ISO 1133	**0,6**	g/10 min
Melt mass flow rate MFR (190 °C/5 kg)	DIN EN ISO 1133	**1,13**	g/10 min
Density (23 °C)	DIN EN ISO 1183-1A	**0,96**	g/cm³
HDPE content (DSC)	DIN EN ISO 11357	**100**	wt%

Mechanical properties

Property	Norm	Value	Unit
Tensile strength (23 °C)	DIN EN ISO 527-1, - 2, type 1A	**26**	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	**925**	MPa
Flexural modulus (23 °C)	DIN EN ISO 178	**800**	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	**42**	kJ/m²
Charpy notched impact strength (-30 °C)	DIN EN ISO 179-1, 1eA	**4,3**	kJ/m²
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.

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