

Technical data sheet

Product name: HDPE Black PE80/100
Date of issue: 03 April 2024

Version: 1.0

Designation of product, preparation and manufacturer

Trade name: HDPE Black PE80/100
Use of product: Post consumer recycled high density polyethylene suitable for extrusion.

Distributor: FKUR Polymers GmbH
Siemensring 79
D - 47 877 Willich
Phone: + 49 (0) 2154 / 92 51-0
Fax: + 49 (0) 2154 / 92 51-51
Mail: polymers@fkur.com
Web: www.fkur.com

Mechanical properties

Modulus of elasticity	700	[MPa]	ISO 527
Tensile strength	25	[MPa]	ISO 527
Tensile strain at tensile strength	13	[%]	ISO 527
Tensile stress at break	7	[MPa]	ISO 527
Tensile strain at break	40	[%]	ISO 527
Notched impact strength (Charpy), RT	45	[kJ/m ²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	no break	[kJ/m ²]	ISO 179-1/1 eU

The values listed have been established on standardized test specimens (DIN EN ISO 3167, type A) at standard temperature and humidity conditions.

Physical properties

Melt flow rate (190 °C/2.16 kg)	0.4 - 0.7	[g/10 min]	ISO 1133
Melting temperature	130 - 145	[°C]	
Density	0.96	[g/cm ³]	ISO 1183

The figures should be regarded as guide values only. Under certain conditions the properties can be influenced to a significant extent by the processing conditions.

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Processing and Handling Information

General

This material is a post consumer recycled polyolefin. Due to its chemical structure, it should be handled and processed like standard polyolefins.

Drying

If packed in its original packaging and stored in good conditions drying is not necessary.
If moisture uptake is too high the material can be dried at 60 °C for a period of 2 - 4 hours.

Storage

If not specified otherwise product life is 6 month after shipment from Sellers warehouse if product is in its original packaging, stored under dry (max. 70% relative humidity) and dark conditions (not exposed to sunlight at a temperature of 5 °C to max. 30°C (ambient temperature)). It is important to observe that a major drop in external air temperature (e.g. during transportation) can result in a development of water condensate. Prior to the processing of the material, it should be ensured that there is no condensate on the packaged product.

Finished products shall be stored dry and cold. It is recommended to wrap goods in black PE liners to protect them against moisture and UV radiation. Storage time depends on processing parameters and of climate conditions in the respective area. Because of these essential and complex interacting parameters a shelf life guarantees for finished products cannot be given. Each customer should execute individual storage tests according to product specifications and storage requirements.

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