

Technical data sheet

Product name: HDPE C Blow Blue
Date of issue: 18 April 2023

Version: 1.0

Designation of product, preparation and manufacturer

Trade name: HDPE C Blow Blue
Use of product: Post consumer recycled high density polyethylene for blow moulding applications in various colours. Suitable for container, canisters and barrels up to 80 liters.

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Mechanical properties

| | | | |
|--------------------------------------|-----|----------------------|----------------|
| Modulus of elasticity | 950 | [MPa] | ISO 527 |
| Tensile strength | 28 | [MPa] | ISO 527 |
| Tensile strain at tensile strength | 12 | [%] | ISO 527 |
| Tensile stress at break | 11 | [MPa] | ISO 527 |
| Tensile strain at break | 45 | [%] | ISO 527 |
| Notched impact strength (Charpy), RT | 120 | [kJ/m ²] | ISO 179-1/1 eA |
| Impact Strength (Charpy), RT | 150 | [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/21.6 kg) | 3.4 | [g/10 min] | ISO 1133 |
| Melting temperature | 130 - 145 | [°C] | |
| Density | 0.95 | [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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