

Preliminary technical data sheet

Product name: Macolen[®] rPP 250450

Date of issue: 26 April 2024

Version: 1.0

Designation of product, preparation and manufacturer

Trade name: Macolen[®] rPP 250450

Use of product: Polypropylene copolymer with recycled material with very high impact strength (notched); suitable for injection molding.

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Mechanical properties

Modulus of elasticity	1,200	[MPa]	ISO 527
Tensile strength	23	[MPa]	ISO 527
Tensile strain at tensile strength	5.5	[%]	ISO 527
Tensile stress at break	15	[MPa]	ISO 527
Tensile strain at break	50	[%]	ISO 527
Notched impact strength (Charpy), RT	9	[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 (230 °C/2.16 kg)	16	[g/10 min]	ISO 1133
Melting temperature	160 - 180	[°C]	

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

Macolen[®] is a compound partly based on recycled polypropylene. It can contain additives and reinforcing fillers. Due to its chemical structure it can be seen as drop-in solution to replace fossil polyolefins and shall 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, Macolen[®] 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 made from Macolen[®] 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, FKUR Kunststoff GmbH cannot give any shelf life guarantees for finished products. Please notice that the conditions mentioned above depend on experience of our customers. Each customer should execute individual storage tests according to product specifications and storage requirements.

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