Technical data sheet

Product name: **Fibrolon® P 7550**
Date of issue: 15 April 2025 Version: 5.0

Designation of product, preparation and manufacturer

Trade name: Fibrolon® P 7550

Use of product: Fiber reinforced compound based on polypropylene, used in injection moulding appliations. Contains wood fibres.

Manufacturer:
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Mechanical properties

Modulus of elasticity	4.800	[MPa]	ISO 527
Tensile strength	41	[MPa]	ISO 527
Tensile strain at tensile strength	2.1	[%]	ISO 527
Tensile stress at break	41	[MPa]	ISO 527
Tensile strain at break	2.2	[%]	ISO 527
Notched impact strength (Charpy), RT	4.9	[kJ/m²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	12	[kJ/m²]	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/5 kg)	14	[g/10 min]	ISO 1133
Melting temperature	150 - 180	[°C]	
Vicat A softening temperature	160	[°C]	ISO 306
Density	1.09	[g/cm³]	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

Fibrolon® is a natural fibres reinforced polyplopylene. Residual moisture content of more than 0.3 % can lead to the typical defects for plastics. Fibres are natural raw materials that contain different quantities of lignin. Due to this, variations in colour may occur from batch to batch. It is therefore recommended that the materials are processed in pure batches.

Drying

We recommend drying Fibrolon® 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 Fibrolon® must 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.

Processing conditions for injection moulding

Machine equipment: Standard screw, open nozzle.

Machine settings:		
Feeding Zone	20 - 40	[°C]
Zone 1	170	[°C]
Zone 2	180	[°C]
Zone 3	190	[°C]
Machine nozzle	200	[°C]
Mould temperature	30 - 50	[°C]
Holding pressure level	40 - 70	[%]
Melt cushion (of volume)	3 - 10	[%]
Cooling time	10	[s]
Max. dwell time	300	[s]

We recommend to use cold runner systems.
Regrind sprues and runners can be reused at 20%.

Purging advice for injection moulding

Before production:	Purge the plastification unit and, if existing, the hot runner with PP, PE or purging compound.
During production:	Heat tools and plastification unit to the recommended temperature. If tool is not filled, increase temperature stepwise. Material has a tendency to degrade and therefore needs a constant melt flow.
After production:	Purge the plastification unit and, if existing, the hot runner with PP, PE or purging compound.
Important information:	The dwell time of the material inside the machine shall be reduced to a minimum in order to lower the risk of degradation.

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