

Technical data sheet

Product name: Terraprene® CI 450 93A
Date of issue: 13 November 2019

Version: 1.0

Designation of product, preparation and manufacturer

Trade name: Terraprene® CI 450 93A

Use of product: Compound based on biobased polyethylene, softening polymers and additives. The biobased carbon content (BCC) is > 80 % (calculated). Suitable for the replacement of PVC and TPO.

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Mechanical properties

Tensile strength	11	[MPa]	ISO 37
Tensile strain at break	220	[%]	ISO 37
Shore hardness	A 93	[-]	ISO 868

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

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.

Processing and Handling Information

General

Terraprene® is a compound mainly based on biobased polyethylene. It can contain additives, fossil polyolefins 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, Terraprene® 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 Terraprene® 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.

Processing conditions for injection moulding

Machine settings:	Feeding Zone	60	[°C]
	Zone 1	160	[°C]
	Zone 2	180	[°C]
	Zone 3	190	[°C]
	Machine nozzle	200	[°C]
	Mould temperature	25 - 40	[°C]

General advice: Regrind sprues and runners can be reused at 20%.

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