

Technical data sheet

Product name: Date of issue:	Terralene® PP 3509 01 October 2021		Version: 2.0	
Designation of product, preparation a	nd manufacturer			
Trade name:	Terralene® PP 3509			
Use of product:	Polypropylen copolymer blend with biobased high density polyethylene. The biobased carbon content (BCC) is 33 % (calculated). Suitable for injection moulding applications such as bins.			
Manufacturer:	FKuR Kunststoff GmbH Siemensring 79 D - 47 877 Willich Phone: + 49 (0) 2154 / 92 51-0 Fax: + 49 (0) 2154 / 92 51-51 Mail: info@fkur.com Web: www.fkur.com			
Mechanical properties				
Modulus of elasticity Tensile strength Tensile strain at tensile strength Tensile stress at break Tensile strain at break	1,100 24 11 24 13	[MPa] [MPa] [%] [MPa] [%]	ISO 527 ISO 527 ISO 527 ISO 527 ISO 527 ISO 527	
Notched impact strength (Charpy), RT Impact Strength (Charpy), RT	3.5 73	[kJ/m²] [kJ/m²]	ISO 179-1/1 eA ISO 179-1/1 eU	
The values listed have been established on stand	dardized test specimens (DIN EN ISO 3167, type A) at	standard temperature	and humidity conditions.	
Physical properties				
Melt flow rate (230 °C/2.16 kg)	36	[g/10 min]	ISO 1133	
Melting temperature Vicat A softening temperature	160 - 165 122	[°C] [°C]	ISO 3146-C ISO 306	
Density	0.916	[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

Terralene® is a compound partly based on biobased polyethylene. It can contain additives, fossil polyolefins and reinforcing fillers. Due to its chemical sturcture it can be seen as drop-in solution to replace fossil polyolefins and shall be handeled and processed like standard polvolefins.

Drving

If packed in its original packaging and stored in good conditions drying is not necessary.

If moisture uptake is too high, Terralene® 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 Terralene® 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 inject	tion mould	ling

Machine settings:	Feeding Zone Zone 1 Zone 2 Zone 3 Machine nozzle Mould temperature	15 - 40 190 210 220 230 40	[°C] [°C] [°C] [°C] [°C] [°C]
	Holding pressure level Melt cushion (of volume) Cooling time Max. dwell time	40 - 70 3 - 10 15 300	[%] [%] [s] [s]
General advice:	Regrind sprues and runners can be reused at 20%.		

Legal notice

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The current version of General Conditions of Sale of FKuR Kunststoff GmbH is valid.

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