

## Geosynthetics Sampling Instruction

This instruction refers to and satisfies the requirements of EN ISO 9862:2023

### DEFINITIONS

„**Sample**” – part of a product cut from a roll or other original packaging, which will be delivered do TRI Europe’s laboratory with the intention to be cut into smaller “specimens” that will be used for testing.

**MD – machine direction** – direction in which the product was manufactured and rolled up. In geotextiles this corresponds to warp direction. **CD (or CMD, XD, TD) – cross direction** – perpendicular to machine direction. In geotextiles this corresponds to weft.

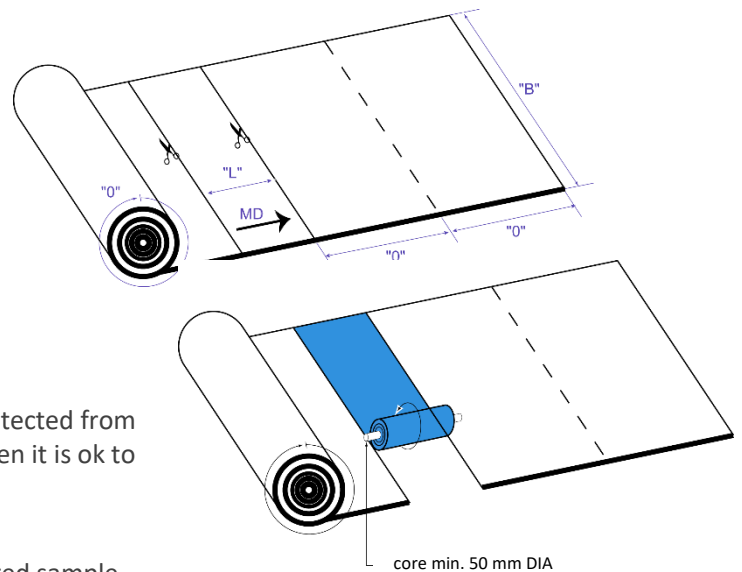
Selection of **BATCH** or **ROLL** to be used for sampling is up to the Client. Products should be sampled from undamaged rolls, with original wrapping. Geosynthetics that have been exposed to severe weather, especially direct sunlight, should not be sampled. Care should be taken to verify that the roll or batch for sampling is clearly identified with product label and that the name of product and roll/batch number are readable. In case the product submitted for sampling is missing labels or no virgin product is available, such information should be acknowledged in sampling protocol.

**SAMPLE SIZE.** It is recommended to take samples with width “B” equal to entire roll width so that the average property across roll width can be tested. Sample length (in Machine Direction, “L”) will be defined by laboratory depending on the scope of requested testing.

**USEFUL TOOLS.** Tape measure min. 5 m long, scissors, sharp knife, spray paint and sharpie pen. Cutting tools should be sharp to allow for a smooth cut, without damaging adjacent parts of material.

### Steb-by-step SAMPLING:

1. **Take photographs of product labels** on original wrapping.
2. **Fill out sampling protocol**  
 Include product name, roll or batch number and DoP number if listed on product label.
3. **Make a mark on the side of a roll**  
 (using a sharpie pen or spray paint) so that the first two turns of the roll can be easily measured.
4. **Unwind the roll and discard the outside layers**  
 corresponding to the first two turns of the roll (equal to roll circumference, „O”). When roll was safely protected from UV, in original wrapping, and the unrolled product is dry then it is ok to discard only one turn of the product rather than two.
5. **Mark required sample dimensions „L” x „B”.**  
 If the product submitted for sampling is smaller than required sample size – make a note in sampling protocol. When the required sample size is not known cut two strips not smaller than  $L = 1,0 \text{ m}$  (in MD) x roll width „B”, together not less than  $5,0 \text{ m}^2$ .
6. **Sign the sample** with sample # and draw an arrow representing Machine Direction (MD) – before cutting!
7. **Cut the sample** across the full width, perpendicular to Machine Direction. Do not pull, tear or rip the product. Do not step on the sample.
8. **Roll up the sample onto a core** or tube with 50 mm diameter or bigger. When more than one strips are required make sure to cut two independent strips rather than cutting a wider strip and folding it in half. Multiple strips should be rolled onto a core one after another. Once rolled, make sure that the sample is described in a clear and readable manner.
9. **Sign sampling protocol.**



**TRANSPORT** – Sample should be **protected from weather conditions**. Sample should be wrapped with black plastic to protect from UV. Samples in transport should not be exposed to excessive high temperatures and moisture.