## Task:

**Application field:** Chemistry / Plastics

**Material:** Polystyrene

**Feed size:** 65 x 120 mm (Ø x length)

**Feed quantity:** 80 g

**Material specification(s):** porous, temperature sensitive

**Customer requirement(s):** 2 - 3 mm

**Subsequent analysis:** Leaching characteristics

## Solution:

**Selected instrument(s):** Cutting Mill SM 300

**Configuration(s):**
- 6-disc rotor SM 300, stainless steel
- Bottom sieve square holes 4 mm, stainless steel
- Ring-type filter for collecting receptacle 5 litres

**Parameter(s):** Revolution speed 700 rpm

**Time:** 20 s

**Achieved result(s):** predominantly 2 - 3 mm

**Remark(s):**

**Recommendation:** The Cutting Mill SM 300 is suitable to grind the sample Polystyrene under the above mentioned conditions.
Pictures of the sample

Fig. 1: original sample

Fig. 2: sample after grinding in SM 300