# Task:

- **Application field:** Chemistry / Plastics
- **Material:** Polystyrene
- **Feed size:** 2-4 mm
- **Feed quantity:** 5 g
- **Material specification(s):** hard,
- **Customer requirement(s):** < 300 µm
- **Subsequent analysis:** not defined

# Solution:

- **Selected instrument(s):** CryoMill
- **Configuration(s):**
  - Grinding jar stainless steel 50 ml, screw top design;
  - Grinding ball stainless steel 25 mm ø
- **Parameter(s):**
  - Frequency 25 Hz; 1 cycle
- **Time:** 10 min.
- **Achieved result(s):** 90 % < 300 µm
- **Remark(s):**
  - Pre-cooling for 10 min. in order to make sure that the material is completely pre-embrittled.
  - Grinding for 2 min.
- **Recommendation:** For grinding polystyrene our CryoMill is suitable under the above mentioned conditions.