**Task:**

**Application field:** Chemistry / Plastics

**Material:** Viton

**Feed size:** 0-4 mm (after manual pre-cutting)

**Feed quantity:** 6 g (for each test)

**Material specification(s):** elastic, soft

**Customer requirement(s):** < 200 µm

**Subsequent analysis:** Particle Size Analysis, determination of Pb and F

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**Solution:**

**Selected instrument(s):**
- CryoMill
- Ultra Centrifugal Mill ZM 200

**Configuration(s):**
- CryoMill: Grinding jar stainless steel 50 ml, screw top design; Grinding ball stainless steel 25 mm ø; ZM 200: Push-fit rotor, 12 teeth, stainless steel; Ring sieve trapezoid holes 0.5 mm, stainless steel

**Parameter(s):**
- CryoMill: Frequency 25 Hz
- ZM 200: Revolution speed 18000 rpm

**Time:**
- 2x2 min grinding, 1 min intermediate cooling, 10 pre-cooling for CryoMill; 1 min for ZM 200

**Achieved result(s):**
- CryoMill: 90% < 182 µm
- ZM 200: predominantly < 250 µm

**Remark(s):** Prior to feeding to the ZM 200 the sample material is pre-embrittled in liquid nitrogen.

**Recommendation:** The CryoMill and the Ultra Centrifugal Mill ZM 200 are suitable to grind the sample material under the above mentioned conditions.

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