### Task:

**Application field:** Chemistry / Plastics

**Material:** Polypropylene PP, polybutylphthalate PBT

**Feed size:** 2-4 mm granulate

**Feed quantity:** 200 g per batch

**Material specification(s):** medium-hard, temperature sensitive

**Customer requirement(s):** < 300 µm

**Subsequent analysis:** Dilution Viscosity

### Solution:

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

**Configuration(s):** Push-fit rotor of stainless steel with 12 teeth; Ring sieve of stainless steel, trapezoid holes 0.5 mm

**Parameter(s):** Revolution speed 18000 rpm

**Time:** 3 min. (per sample)

**Achieved result(s):** 60 - 70 % < 375 µm

**Remark(s):** In this case the disintegration can only be carried out by pre-embrittlement of the samples with liquid nitrogen.

**Recommendation:** For the preparation and fine-grinding of plastic granulate with different product properties our Ultra Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.
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