### Task:

**Application field:** Chemistry / Plastics  
**Material:** PET Polyethylenterephtalate crystallized  
**Feed size:** 3-4 mm (granulate)  
**Feed quantity:** 200 g  
**Material specification(s):** elastic, temperature sensitive  
**Customer requirement(s):** < 500 - 600 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, Conidur holes 0.75 mm  
**Parameter(s):** Revolution speed 18000 rpm  
**Time:** 7 min.  
**Achieved result(s):** 95 % < 500 µm  
**Remark(s):** For finer grinding results it is necessary to embrittle the granulate by liquid nitrogen (N$_2$).  
**Recommendation:** For fine grinding of elastic plastic granulate, the Ultra Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.

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The application report is based solely on the processing of the available sample material in the indicated amount. No legal claims shall be derived from this test report. Subject to technical modification and errors.  
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