Task:

**Application field:** Chemistry / Plastics

**Material:** Powder coating chips

**Feed size:** 2-15 mm

**Feed quantity:** 2000 g

**Material specification(s):** hard brittle, electrostatical

**Customer requirement(s):** < 70 -75 µm, 2kg/batch

**Subsequent analysis:** Colour Measurement

Solution:

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

**Configuration(s):** Push-fit rotor, 12 teeth, stainless steel;
Distance sieve trapezoid holes 0.25 mm, stainless steel;
Passage receptacle ZM 200 for cyclone;
Vibratory Feeder DR 100

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

**Time:** 18 - 20 min.

**Achieved result(s):** 90 - 95 % < 75 µm

**Remark(s):** To prevent electrostatical behavior of the material, the receptacle and the cyclon have been covered with anti static spray before grinding.

**Recommendation:** For fine grinding of powder coatings the Ultra Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.
Pictures of the sample

**Fig. 1:** Original sample of Powder coating chips

**Fig. 2:** Feeding of the material by the Vibratory Feeder DR 100