**Task:**

**Application field:** Chemistry / Plastics  
**Material:** Powder coating  
**Feed size:** 5-20 mm (chips)  
**Feed quantity:** 700 g  
**Material specification(s):** brittle, temperaturesensitive  
**Customer requirement(s):** 90 % < 75 µm  
**Subsequent analysis:** For coating tests

**Solution:**

**Selected instrument(s):**  
ZM 200 Ultra Centrifugal Mill  
DR 100/40 Vibratory Feeder  

**Configuration(s):**  
Push-fit rotor of stainless steel with 12 teeth;  
Distance sieve of stainless steel, Conidur holes 0.25 mm;  
Cyclone for ZM 200 with passage receptacle and holder, with receptacle 5 l  

**Parameter(s):** Revolution speed 18000 rpm  
**Time:** 5 min.  
**Achieved result(s):** 95 % < 75 µm  

**Remark(s):** If a distance sieve of 0.12 mm is used, it is necessary to clean the ring sieve after having ground a sample quantity of < 200 ml.

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

Fig. 1: Original sample 1

Fig. 2: After fine grinding in ZM 200 with distance sieve 0.25 mm

Fig. 3: Original sample 2

Fig. 4: After fine grinding in ZM 200 with distance sieve 0.25 mm