**Task:**

- **Application field:** Chemistry / Plastics
- **Material:** PVC profiles and disks
- **Feed size:** 50-70 mm
- **Feed quantity:** 230 g
- **Material specification(s):** tough, hard
- **Customer requirement(s):** < 2 mm
- **Subsequent analysis:** Dilution Viscosity

**Solution:**

- **Selected instrument(s):** SM 2000 Heavy-Duty Cutting Mill
- **Configuration(s):** Bottom sieves of stainless steel, square holes 4 mm; Standard hopper
- **Parameter(s):** 750 rpm
- **Time:** 5 min. (feeding the material piece by piece)
- **Achieved result(s):**
  1. Grinding step 48 % < 2 mm
  2. Grinding step 68 % < 2 mm
- **Remark(s):** The original feed size of the profiles should be reduced down to the half size, otherwise the rotor will block. The particle distribution and the oversize > 2 mm can be changed by additional grinding steps under the same conditions. By using bottom sieves < 2 mm the material will stick in the grinding chamber.

**Recommendation:** For pre cutting of different plastic materials like PVC, the Heavy Duty Cutting Mill is suitable under the above mentioned conditions.

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. © Retsch GmbH - www.retsch.com - lab@retsch.com
Pictures of the sample

Fig. 1:

Fig. 2: