Task:

Application field: Chemistry / Plastics

Material: Plastic parts made of HI-PS / LD-PE / HI-PVC / PP

Feed size: 0-60 mm

Feed quantity: 250 g (approx. per sample)

Material specification(s): Elastic, temperature sensitive

Customer requirement(s): < 3 - 4 mm

Subsequent analysis: Melting Point; Melting Viscosity

Solution:

Selected instrument(s): Cutting Mill SM 100 As the SM 100 was discontinued we recommend to use the SM 300 now

Configuration(s): Cutting Mill SM 100; Base frame SR/SK/SM; Standard hopper SM; Ring-type filter with trapezoid hole body for collecting receptacle 5 litres; Bottom sieve square holes 6 mm, stainless steel

Parameter(s): Revolution speed 1500 rpm

Time: 3 min. (for each sample)

Achieved result(s): predominantly 3 - 4 mm, as demanded

Remark(s): For the preparation of very thick, tough and long plastic profiles the usage of our Heavy Duty Cutting Mill SM 300 with 800 rpm and 6-disc rotor is more suitable.

Recommendation: For the grinding of elastic plastic parts we recommend our Cutting Mill SM 100 according to 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.

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Pictures of the sample

**Fig. 1:** HI-PS plastic before and after grinding in SM 100 with bottom sieve 6 mm square hole

**Fig. 2:** LD-PE plastic before and after grinding in SM 100 with bottom sieve 6 mm square hole

**Fig. 3:** HI-PVC plastic before and after grinding in SM 100 with bottom sieve 6 mm square hole

**Fig. 4:** PP plastic before and after grinding in SM 100 with bottom sieve 6 mm square hole