Task:

Application field: Chemistry / Plastics

Material: Rubber granulate, used tire

Feed size: 0-5 mm

Feed quantity: 1000 g

Material specification(s): elastic, temperature sensitive

Customer requirement(s): < 500 µm, < 100 µm

Subsequent analysis: Not defined

Solution:

Selected instrument(s): Ultra Centrifugal Mill ZM 200

Configuration(s): Push-fit rotor ZM 200, 12 teeth, stainless steel; Ring sieve ZM 200 trapezoid holes 1 mm, stainless steel; Cyclone ZM 200 with passage receptacle and holder, with 3 litres collector

Parameter(s): speed 18000 rpm

Time: 20 min.

Achieved result(s): predominantly < 500 µm

Remark(s): Before grinding, the material was pre cooled in liquid nitrogen. A fine grinding down to 100 µm is only possible for a small quantity of approx. 50 ml.

Recommendation: For sample preparation of rubber granulate the Ultra Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.