Task:

Application field: Chemistry / Plastics

Material: Polyethylene

Feed size: approx. 2 - 90 mm

Feed quantity: approx. 100 g

Material specification(s): Soft, Medium-hard, static

Customer Requirement(s): < 1 - 2 mm

Subsequent analysis: Melt Index, Density

Solution:

Selected instruments(s): Cutting Mill SM 100

Configuration(s): Parallel section rotor; bottom sieve 1 mm

Parameter(s): Revolution speed 1690 rpm

Time: approx. 5 min

Achieved result(s): predominantly < 1 mm

Remark(s): To improve its breaking behaviour the sample should be pre-embrittled in liquid nitrogen. Antistatic spray reduces the static charge in the grinding chamber. To prevent blocking of the machine large pieces of harder material should be pre-ground with a 10 mm bottom sieve.

Recommendation: For grinding of Polyethylene the Cutting Mill SM 100 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.

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