



GORE® GR

SHEET GASKETING

Technical bulletin – EN 13555 tests: E_G (Recovery)

Product: GORE® GR sheet gasketing
Test dates: January – February 2006
Test institute: Fachhochschule Münster
Test procedures: Mechanical characteristics test according to EN 13555

TEST OVERVIEW:

E_G describes the recovery (elastic behavior) of a seal when the load on it is reduced. It is related to the modulus of elasticity of other materials (high E_G value: low recovery; low E_G value: high recovery). It depends on the applied gasket stress, the seal thickness and the temperature.

During the test the gasket stress is increased in stages and then reduced to 1/3 of the previous gasket stress; the change in the seal thickness when the load is reduced is then measured. The E_G value is calculated from the load reduction. The test is repeated at various temperatures.



TEST RESULTS:

Material	Thickness [mm]	Temp. [°C]	E _{G20MP} [MPa]	E _{G30MP} [MPa]	E _{G40MP} [MPa]	E _{G50MP} [MPa]	E _{G60MP} [MPa]
GORE® GR	1.6	20	286	457	641	728	1170
GORE® GR	1.6	230	561	531	669	669	1002
GORE® GR	3.2	20	385	567	815	1134	1385
GORE® GR	3.2	230	513	527	771	721	631
GORE® GR	6.4	20	357	591	821	1471	1453
GORE® GR	6.4	230	357	634	777	896	1250

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