



FINAL DRAFT
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Specification

ISO/DPAS 22101-5

**Polyethylene reinforced with short
glass fibres (PE-sGF) piping systems
for industrial applications —**

**Part 5:
Fitness for purpose of the system**

ISO/TC 138/SC 3

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Introduction

Polyethylene reinforced with short glass fibres (PE-sGF) piping systems are pipe systems which consist of fittings produced by adding short glass fibres into high density polyethylene resins. Their physical and mechanical properties are influenced by short glass fibre orientation.

The technology of production of PE-sGF pipes is completely different from the traditional technology used during PE pipes extrusion. For this reason, this document makes reference to standard inside dimension ratio (SIDR). To prevent confusion, the parameter "standard dimension ratio" (SDR), commonly used for PE products, is not used in this document.

For the material subject of this document, the mechanical performances are obtained on the basis of standards dedicated to thermoplastics. The geometrical characteristics are defined for this material in line with ISO 4065.

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