

# ISO 4437-1:2024-02 (E)

## Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 1: General

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>3</b>
<b>3.1</b>	<b>Terms related to geometry .....</b>	<b>3</b>
<b>3.2</b>	<b>Terms related to material .....</b>	<b>4</b>
<b>3.3</b>	<b>Terms related to material characteristics .....</b>	<b>4</b>
<b>3.4</b>	<b>Terms related to service conditions .....</b>	<b>5</b>
<b>3.5</b>	<b>Terms related to joints .....</b>	<b>6</b>
<b>4</b>	<b>Symbols and abbreviated terms .....</b>	<b>6</b>
<b>4.1</b>	<b>Symbols .....</b>	<b>6</b>
<b>4.2</b>	<b>Abbreviated terms .....</b>	<b>7</b>
<b>5</b>	<b>Material .....</b>	<b>8</b>
<b>5.1</b>	<b>Material of the components .....</b>	<b>8</b>
<b>5.2</b>	<b>Compound .....</b>	<b>8</b>
<b>5.2.1</b>	<b>Additives and pigments .....</b>	<b>8</b>
<b>5.2.2</b>	<b>Colour .....</b>	<b>8</b>
<b>5.2.3</b>	<b>Characteristics .....</b>	<b>8</b>
<b>5.3</b>	<b>Fusion compatibility .....</b>	<b>12</b>
<b>5.4</b>	<b>Classification and designation .....</b>	<b>13</b>
<b>5.5</b>	<b>Design coefficient and design stress .....</b>	<b>13</b>
<b>5.6</b>	<b>Change of compound formulation .....</b>	<b>13</b>
<b>Annex A (informative) Additional information related to the installation of PE 100-RC systems .....</b>		<b>14</b>
<b>Annex B (informative) LPG and manufactured gas .....</b>		<b>16</b>
<b>Annex C (informative) Resistance to rapid crack propagation (RCP) .....</b>		<b>17</b>
<b>Bibliography .....</b>		<b>19</b>