

# DIN 8078:2007-05 (E)

## Polypropylene (PP) pipes - PP-H, PP-B, PP-R, PP-RCT - General quality requirements and testing

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
<b>1</b>	<b>Scope .....</b>	<b>3</b>
<b>2</b>	<b>Normative references .....</b>	<b>3</b>
<b>3</b>	<b>Material .....</b>	<b>4</b>
<b>3.1</b>	<b>General .....</b>	<b>4</b>
<b>3.2</b>	<b>Proof of long-term hydrostatic strength .....</b>	<b>4</b>
<b>4</b>	<b>Requirements .....</b>	<b>9</b>
<b>4.1</b>	<b>Delivery condition .....</b>	<b>9</b>
<b>4.2</b>	<b>Surface condition .....</b>	<b>9</b>
<b>4.3</b>	<b>Dimensions and tolerances .....</b>	<b>9</b>
<b>4.4</b>	<b>Long-term hydrostatic strength .....</b>	<b>9</b>
<b>4.5</b>	<b>Impact strength test behaviour (inspection by attributes) .....</b>	<b>9</b>
<b>4.6</b>	<b>Changes after heat treatment .....</b>	<b>9</b>
<b>5</b>	<b>Testing .....</b>	<b>10</b>
<b>5.1</b>	<b>Surface condition .....</b>	<b>10</b>
<b>5.2</b>	<b>Dimensions .....</b>	<b>10</b>
<b>5.3</b>	<b>Out-of-roundness (ovality) .....</b>	<b>10</b>
<b>5.4</b>	<b>Long-term hydrostatic strength test .....</b>	<b>11</b>
<b>5.5</b>	<b>Impact strength test (inspection by attributes) .....</b>	<b>12</b>
<b>5.6</b>	<b>Heat reversion .....</b>	<b>13</b>
<b>5.7</b>	<b>Inspection documents .....</b>	<b>13</b>
<b>Annex A (informative)</b>	<b>Explanatory notes .....</b>	<b>14</b>
<b>Bibliography .....</b>		<b>16</b>
<b>Figures</b>	<b>Figure 1 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-H pipes .....</b>	<b>5</b>
	<b>Figure 2 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-B pipes .....</b>	<b>6</b>
	<b>Figure 3 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-R pipes .....</b>	<b>7</b>
	<b>Figure 4 -- Reference characteristic curves of the long-term hydrostatic strength (minimum curves) for PP-RCT pipes .....</b>	<b>8</b>
	<b>Figure 5 -- Test pieces for long-term hydrostatic test .....</b>	<b>11</b>
	<b>Figure 6 -- Bar-shaped test piece for impact strength test .....</b>	<b>12</b>
<b>Tables</b>	<b>Table 1 -- Coefficients for calculating the reference characteristic curves .....</b>	<b>4</b>
	<b>Table 2 -- Test conditions for the long-term hydrostatic test .....</b>	<b>10</b>

<b>Table 3 -- Impact strength test pieces .....</b>	<b>13</b>
<b>Table 4 -- Test conditions for heat treatment .....</b>	<b>13</b>
<b>Table A.1 -- Guideline values for some properties of PP materials .....</b>	<b>15</b>