

**Basic Standard HDPE PE 80 Pressure Pipe Material Data**

Our Pipes comply to ASTM D 3350 PE 345444 C / E

|                              | Norm        | Unit                 | Value         |
|------------------------------|-------------|----------------------|---------------|
| <b>Polymer Data</b>          |             |                      |               |
| Density                      | ASTM D 1505 | [g/cm <sup>3</sup> ] | 0,941 - 0,946 |
| Melt Flow                    | ASTM D 1238 | [g/10 min]           | 0,41 - 0,55   |
| <b>Mechanical Properties</b> |             |                      |               |
| Elongation at yield stress   | ASTM D 638  | [%]                  | > 8           |
| Elongation at break          | ASTM D 638  | [%]                  | > 800         |
| Flexural Modulus             | ASTM D 790  | [MPa]                | 800 - 950     |
| Ball indentation hardness    | ISO 2039    | [N/mm <sup>2</sup> ] | 44 +/-4       |
| Shore hardness               | ASTM D 2240 | [Shore A]            | 60 - 61       |
| Tensile Strength at yield    | ASTM D 638  | [MPa]                | 21 - 22       |
| Tensile strength at break    | ASTM D 638  | [MPa]                | > 35          |
| Impact Strength              | ASTM D 256  | [KJ/cm/cm]           | > 20          |
| <b>Other properies</b>       |             |                      |               |
| Hydostatic Design Basis      | ASTM D 2837 | [MPa]                | 1,1           |
| ESC                          | ASTM D 1693 | [hrs]                | > 1500        |