

# Pipe

## Construction



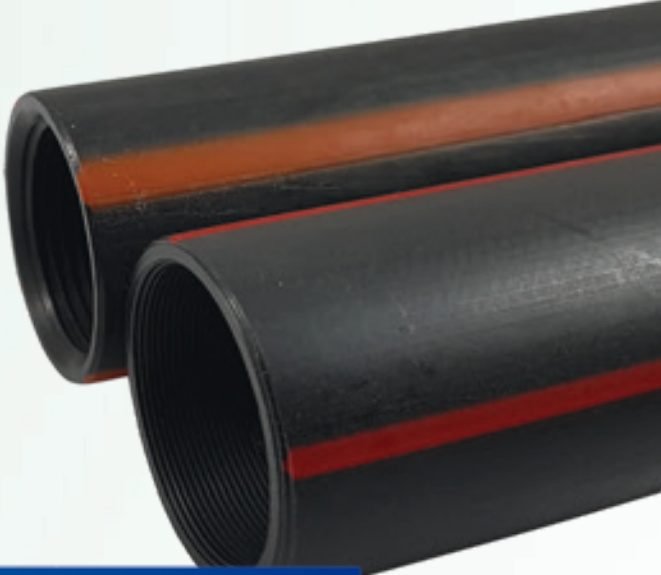
Water Supply



Construction/  
Infrastructure



Industrial /  
Chemicals



| HDPE and Compound Resin                |                     |          |                     |                       |                         |
|----------------------------------------|---------------------|----------|---------------------|-----------------------|-------------------------|
| Properties                             | Test Method         | Unit     | Pipe                |                       |                         |
|                                        |                     |          | InnoPlus<br>HD8100M | PlastMate<br>HD8100MB | PlastMate<br>HD8110MBLS |
| MFR (190 °C, 5 kg)                     | ISO 1133            | g/10 min | 0.25                | 0.25                  | 0.21                    |
| Density                                | ISO 1183            | g/cm³    | 0.952               | 0.960                 | 0.960                   |
| Melting Temperature                    | ASTM D3418          | °C       | 133                 | -                     | -                       |
| Tensile Strength at Yield              | ISO 527             | MPa      | 25                  | 24                    | 24                      |
| Tensile Strength at Break              | ISO 527             | MPa      | 33                  | 35                    | 35                      |
| Elongation at Break                    | ISO 527             | %        | 750                 | 750                   | 750                     |
| Flexural Modulus                       | ASTM D790           | kg/cm²   | 10,000              | 10,500                | 10,500                  |
| Notched Izod Impact Strength           | ASTM D256           | kg.cm/cm | 48 (NB*)            | 50 (NB*)              | 50 (NB*)                |
| Durometer Hardness                     | ASTM D2240          | shore D  | 64                  | 64                    | 64                      |
| Vicat Softening Point                  | ASTM D1525          | °C       | 124                 | -                     | -                       |
| ESCR; 25% Igepal, F <sub>50</sub>      | ASTM D1693          | Hours    | > 1,000             | > 2,000               | > 2,000                 |
| Carbon Black Content                   | ISO 6964            | %        | -                   | 2.25                  | 2.25                    |
| Oxidative Induction Time (OIT, 200 °C) | ISO 11357-6         | min      | > 40                | -                     | -                       |
| Oxidative Induction Time (OIT, 210 °C) | ISO 11357-6         | min      | -                   | > 40                  | > 50                    |
| MRS Classification                     | ISO 12162 /ISO 9080 | MPa      | 10.0 (PE100)        | 10.0 (PE100)          | 10.0 (PE100)            |

Note : \* NB = Non Break

## International Standard Compliances



|            | ISO | SIRIM QAS | PIPA | TIS 816-2556* | TIS 2559-2554 |
|------------|-----|-----------|------|---------------|---------------|
| HD8100M    |     |           |      | ✓             |               |
| HD8100MB   | ✓   | ✓         | ✓    |               | ✓             |
| HD8110MBLS | ✓   |           |      |               | ✓             |

\*This certification will be updated and revised by 2024 to TIS 816-2566

