

# HDPE PIPES FOR POTABLE WATER SUPPLY AS PER IS: 4984

| Grade of Material |         |       |         | SDR 41                    | SDR 33 | SDR 26 | SDR 21 | SDR 17 | SDR 13.6 | SDR 11  | SDR 9   | SDR 7.4 | SDR 6 |      |      |      |      |      |      |      |      |      |      |     |
|-------------------|---------|-------|---------|---------------------------|--------|--------|--------|--------|----------|---------|---------|---------|-------|------|------|------|------|------|------|------|------|------|------|-----|
|                   |         |       |         | NOMINAL PRESSURE (PN) bar |        |        |        |        |          |         |         |         |       |      |      |      |      |      |      |      |      |      |      |     |
| PE 63             |         |       |         | PN 2                      | PN 2.5 | PN 3.2 | PN 4   | PN 5   | PN 6     | PN 8    |         |         |       |      |      |      |      |      |      |      |      |      |      |     |
| PE 80             |         |       |         | PN 2.5                    | PN 3.2 | PN 4   | PN 5   | PN 6   | PN 8     | PN 10   | PN 12.5 | PN 16   | PN 20 |      |      |      |      |      |      |      |      |      |      |     |
| PE 100            |         |       |         | PN 3                      | PN 4   | PN 5   | PN 6   | PN 8   | PN 10    | PN 12.5 | PN 16   | PN 20   |       |      |      |      |      |      |      |      |      |      |      |     |
| Nominal Size      | OD (mm) |       | Ovality | Wall Thickness (in mm)    |        |        |        |        |          |         |         |         |       |      |      |      |      |      |      |      |      |      |      |     |
|                   | MIN     | MAX   |         | MM                        | MIN    | MAX    | MIN    | MAX    | MIN      | MAX     | MIN     | MAX     | MIN   | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX  |      |     |
| 16                | 16      | 16.3  | 1.2     |                           |        |        |        |        |          |         |         |         |       |      |      |      |      | 1.8  | 2.1  | 2.2  | 2.5  | 2.7  | 3.1  |     |
| 20                | 20      | 20.3  | 1.2     |                           |        |        |        |        |          |         |         |         |       |      |      |      | 1.9  | 2.2  | 2.3  | 2.6  | 2.7  | 3.1  | 3.4  | 3.8 |
| 25                | 25      | 25.3  | 1.2     |                           |        |        |        |        |          |         |         |         |       | 1.9  | 2.2  | 2.3  | 2.6  | 2.8  | 3.2  | 3.4  | 3.8  | 4.2  | 4.7  |     |
| 32                | 32      | 32.3  | 1.3     |                           |        |        |        |        |          |         |         | 1.9     | 2.2   | 2.4  | 2.7  | 2.9  | 3.3  | 3.6  | 4.1  | 4.4  | 4.9  | 5.4  | 6    |     |
| 40                | 40      | 40.4  | 1.4     |                           |        |        |        |        | 1.9      | 2.2     | 2.4     | 2.7     | 3     | 3.4  | 3.7  | 4.2  | 4.5  | 5.1  | 5.4  | 6    | 6.7  | 7.5  |      |     |
| 50                | 50      | 50.4  | 1.4     |                           |        |        |        | 2      | 2.3      | 2.4     | 2.7     | 3       | 3.4   | 3.7  | 4.2  | 4.6  | 5.2  | 5.6  | 6.3  | 6.8  | 7.6  | 8.4  | 9.3  |     |
| 63                | 63      | 63.4  | 1.5     |                           |        |        |        | 2.5    | 2.9      | 3       | 3.4     | 3.7     | 4.2   | 4.7  | 5.3  | 5.8  | 6.5  | 7    | 7.8  | 8.6  | 9.6  | 10.5 | 11.7 |     |
| 75                | 75      | 75.5  | 1.6     | 1.9                       | 2.2    | 2.3    | 2.6    | 2.9    | 3.3      | 3.6     | 4.1     | 4.5     | 5.1   | 5.6  | 6.3  | 6.9  | 7.7  | 8.4  | 9.3  | 10.2 | 11.3 | 12.5 | 13.9 |     |
| 90                | 90      | 90.6  | 1.8     | 2.2                       | 2.5    | 2.8    | 3.2    | 3.5    | 4        | 4.3     | 4.8     | 5.3     | 5.9   | 6.7  | 7.5  | 8.2  | 9.1  | 10   | 11.1 | 12.2 | 13.5 | 15   | 16.6 |     |
| 110               | 110     | 110.7 | 2.2     | 2.7                       | 3.1    | 3.4    | 3.8    | 4.3    | 4.8      | 5.3     | 6       | 6.5     | 7.3   | 8.1  | 9    | 10   | 11.1 | 12.3 | 13.6 | 14.9 | 16.5 | 18.4 | 20.3 |     |
| 125               | 125     | 125.8 | 2.5     | 3.1                       | 3.5    | 3.8    | 4.3    | 4.8    | 5.4      | 6       | 6.7     | 7.4     | 8.2   | 9.2  | 10.2 | 11.4 | 12.7 | 13.9 | 15.4 | 16.9 | 18.7 | 20.9 | 23.1 |     |
| 140               | 140     | 140.9 | 2.8     | 3.5                       | 4      | 4.3    | 4.8    | 5.4    | 6        | 6.7     | 7.5     | 8.3     | 9.2   | 10.3 | 11.4 | 12.8 | 14.2 | 15.6 | 17.3 | 19   | 21   | 23.4 | 25.8 |     |
| 160               | 160     | 161   | 3.2     | 3.9                       | 4.4    | 4.9    | 5.5    | 6.2    | 6.9      | 7.7     | 8.6     | 9.5     | 10.6  | 11.8 | 13.1 | 14.6 | 16.2 | 17.8 | 19.7 | 21.7 | 24   | 26.7 | 29.5 |     |
| 180               | 180     | 181.1 | 3.6     | 4.4                       | 4.9    | 5.5    | 6.2    | 7      | 7.8      | 8.6     | 9.6     | 10.6    | 11.8  | 13.3 | 14.7 | 16.4 | 18.1 | 20   | 22.1 | 24.4 | 26.9 | 30   | 33.1 |     |
| 200               | 200     | 201.2 | 4       | 4.9                       | 5.5    | 6.1    | 6.8    | 7.7    | 8.6      | 9.6     | 10.7    | 11.8    | 13.1  | 14.7 | 16.3 | 18.2 | 20.1 | 22.3 | 24.6 | 27.1 | 29.9 | 33.4 | 36.8 |     |
| 225               | 225     | 226.4 | 4.5     | 5.5                       | 6.2    | 6.9    | 7.7    | 8.7    | 9.7      | 10.8    | 12      | 13.3    | 14.7  | 16.6 | 18.4 | 20.5 | 22.7 | 25   | 27.6 | 30.5 | 33.7 | 37.5 | 41.4 |     |
| 250               | 250     | 251.5 | 5       | 6.1                       | 6.8    | 7.6    | 8.5    | 9.6    | 10.8     | 12      | 13.3    | 14.7    | 16.3  | 18.4 | 20.3 | 22.8 | 25.2 | 27.8 | 30.7 | 33.8 | 37.3 | 41.7 | 46   |     |
| 280               | 280     | 281.7 | 9.8     | 6.9                       | 7.7    | 8.5    | 9.5    | 10.8   | 12       | 13.4    | 14.8    | 16.5    | 18.3  | 20.6 | 22.8 | 25.5 | 28.2 | 31.2 | 34.4 | 37.9 | 41.8 | 46.7 | 51.5 |     |
| 315               | 315     | 316.9 | 11.1    | 7.7                       | 8.6    | 9.6    | 10.7   | 12.2   | 13.5     | 15      | 16.6    | 18.6    | 20.6  | 23.2 | 25.6 | 28.7 | 31.7 | 35   | 38.6 | 42.6 | 47   | 52.5 | 57.9 |     |
| 355               | 355     | 357.2 | 12.5    | 8.7                       | 9.7    | 10.8   | 12     | 13.7   | 15.2     | 16.0    | 18.7    | 20.9    | 23.1  | 26.1 | 28.8 | 32.3 | 35.6 | 39.5 | 43.6 | 48   | 52.9 | 59.2 | 65.2 |     |
| 400               | 400     | 402.4 | 14      | 9.8                       | 10.9   | 12.2   | 13.5   | 15.4   | 17       | 19.1    | 21.1    | 23.6    | 26.1  | 29.5 | 32.6 | 36.4 | 40.1 | 44.5 | 49.1 | 54.1 | 59.6 | 66.7 | 73.5 |     |
| 450               | 450     | 452.7 | 15.6    | 11                        | 12.2   | 13.7   | 15.2   | 17.3   | 19.1     | 21.5    | 23.8    | 26.5    | 29.3  | 33   | 36.5 | 40.9 | 45.1 | 50   | 55.1 | 60.9 | 67.1 | 75   | 82.6 |     |
| 500               | 500     | 503   | 17.5    | 12.2                      | 13.5   | 15.2   | 16.8   | 19.3   | 21.3     | 23.9    | 26.4    | 29.5    | 32.6  | 36.8 | 40.6 | 45.4 | 50.2 | 55.6 | 61.3 | 67.6 | 74.5 | 83.4 | 91.8 |     |