



SPECIFICATION

**NYLON TYRE CORD FABRICS (NTCF)**

| SPECIFICATION        |         | 2100dtex/2 (1890D/2)<br>1400dtex/3 (1260D/3) |           |           | 1870dtex/2 (1680D/2) |           |           | 1400dtex/2 (1260D/2) |           |           | 930dtex/2 (840D/2) |           |           |        |
|----------------------|---------|--|-----------|-----------|----------------------|-----------|-----------|----------------------|-----------|-----------|--------------------|-----------|-----------|--------|
| ITEM                 | GRADE   | Best   | First     | Qualified | Best                 | First     | Qualified | Best                 | First     | Qualified | Best               | First     | Qualified |        |
|                      | quality | quality                                      | product   | quality   | quality              | product   | quality   | quality              | product   | quality   | quality            | product   | product   |        |
| Tensile Strength     | N/End   | ≥313.6                                       | ≥303.8    | ≥294.0    | ≥279.3               | ≥269.5    | ≥259.7    | ≥215.6               | ≥205.8    | ≥200.9    | ≥137.2             | ≥132.3    | ≥127.4    |        |
| Elongation at 100N   | %       | 9.5±0.5                                      | 9.5±0.8   | 9.5±1.0   |                      |           |           |                      |           |           |                    |           |           |        |
| Elongation at 88.2N  | %       |  |           |           | 9.5±0.5              | 9.5±0.8   | 9.5±1.0   |                      |           |           |                    |           |           |        |
| Elongation at 66.6N  | %       |  |           |           |                      |           |           | 9.5±0.5              | 9.5±0.8   | 9.5±1.0   |                    |           |           |        |
| Elongation at 44.1N  | %       |  |           |           |                      |           |           |                      |           |           | 9.5±0.5            | 9.5±0.8   | 9.5±1.0   |        |
| Adhesion by H-Test   | N/CM    | ≥176.4                                       | ≥166.6    | ≥156.8    | ≥166.6               | ≥156.8    | ≥147.0    | ≥147.0               | ≥137.2    | ≥127.4    | ≥117.6             | ≥107.8    | ≥98.0     |        |
| Cord Gauge           | MM      | 0.78±0.03                                    | 0.78±0.04 | 0.78±0.05 | 0.75±0.03            | 0.75±0.04 | 0.75±0.05 | 0.65±0.03            | 0.65±0.04 | 0.65±0.05 | 0.55±0.03          | 0.55±0.04 | 0.55±0.05 |        |
| TWIST                | Z-Twist | T/10CM                                       | 32±1.5    | 32±1.5    | 32±1.5               | 33±1.5    | 33±1.5    | 33±1.5               | 37±1.5    | 37±1.5    | 37±1.5             | 46±1.5    | 46±1.5    | 46±1.5 |
|                      | S-Twist | T/10CM                                       | 32±1.5    | 32±1.5    | 32±1.5               | 33±1.5    | 33±1.5    | 33±1.5               | 37±1.5    | 37±1.5    | 37±1.5             | 46±1.5    | 46±1.5    | 46±1.5 |
| Variation of Tensile | %       | ≤ 3.8  | ≤ 5.0     | ≤ 6.3     | ≤ 3.8                | ≤ 5.0     | ≤ 6.3     | ≤ 3.8                | ≤ 5.0     | ≤ 6.3     | ≤ 3.8              | ≤ 5.0     | ≤ 6.3     |        |
| Resin Pick up        | %       | 4.5±1.0                                      | 4.5±1.0   | 4.5±1.0   | 4.5±1.0              | 4.5±1.0   | 4.5±1.0   | 4.5±1.0              | 4.5±1.0   | 4.5±1.0   | 4.5±1.0            | 4.5±1.0   | 4.5±1.0   |        |
| Tensile Elongation   | %       | 23±2   | 23±2      | 23±2      | 23±2                 | 23±2      | 23±2      | 23±2                 | 23±2      | 23±2      | 22±2               | 22±2      | 22±2      |        |
| Water Ratio          | %       | ≤ 1.0  | ≤ 1.0     | ≤ 1.0     | ≤ 1.0                | ≤ 1.0     | ≤ 1.0     | ≤ 1.0                | ≤ 1.0     | ≤ 1.0     | ≤ 1.0              | ≤ 1.0     | ≤ 1.0     |        |
|                      | %       | ≤ 6.0  | ≤ 6.5     | ≤ 7.5     | ≤ 6.0                | ≤ 6.5     | ≤ 7.5     | ≤ 6.0                | ≤ 6.5     | ≤ 7.5     | ≤ 6.0              | ≤ 6.5     | ≤ 7.5     |        |



| SPECIFICATION                     |         | 1870dtex/2 (1680D/1) |           |           | 1400dtex/1 (1260D/1) |           |           | 1170dtex/1 (1050D/1) |           |           | 930dtex/1 (840D/1) |           |           |
|-----------------------------------|---------|----------------------|-----------|-----------|----------------------|-----------|-----------|----------------------|-----------|-----------|--------------------|-----------|-----------|
| ITEM                              | GRADE   | Best                 | First     | Qualified | Best                 | First     | Qualified | Best                 | First     | Qualified | Best               | First     | Qualified |
|                                   | quality | quality              | product   | quality   | quality              | product   | quality   | quality              | product   | quality   | quality            | product   | product   |
| Tensile Strength                  | N/End   | ≥132                 | ≥127      | ≥123      | ≥103                 | ≥98       | ≥93       | ≥90                  | ≥86       | ≥82       | ≥69                | ≥67       | ≥65       |
| Elongation at 44.1N               | %       | 8.0±0.8              | 8.0±1.0   | 8.0±1.0   |                      |           |           |                      |           |           |                    |           |           |
| Elongation at 33.3N               | %       |                      |           |           | 7.0±0.8              | 7.0±1.0   | 7.0±1.0   | 7.5±0.8              | 7.5±1.0   | 7.5±1.0   |                    |           |           |
| Elongation at 22.5N               | %       |                      |           |           |                      |           |           |                      |           |           | 7.5±0.8            | 7.5±1.0   | 7.5±1.0   |
| Adhesion by H-Test                | N/CM    | ≥83                  | ≥78       | ≥74       | ≥69                  | ≥64       | ≥59       | ≥70                  | ≥65       | ≥60       | ≥54                | ≥49       | ≥44       |
| Cord Gauge                        | MM      | 0.50±0.03            | 0.50±0.03 | 0.50±0.03 | 0.43±0.03            | 0.43±0.03 | 0.43±0.03 | 0.36±0.03            | 0.36±0.03 | 0.36±0.03 | 0.32±0.03          | 0.32±0.03 | 0.32±0.03 |
| TWIST                             | Z-Twist | T/10CM               | 16.0±1.0  | 16.0±1.0  | 16.0±1.0             | 19.0±1.0  | 19.0±1.0  | 19.0±1.0             | 19.0±1.0  | 19.0±1.0  | 21.0±1.5           | 21.0±1.5  | 21.0±1.5  |
| Variation of Tensile              | %       | ≤ 3.5                | ≤ 4.0     | ≤ 5.0     | ≤ 3.5                | ≤ 4.0     | ≤ 5.0     | ≤ 3.5                | ≤ 4.0     | ≤ 5.0     | ≤ 4.0              | ≤ 4.5     | ≤ 5.0     |
| Variation of Elongation           | %       | ≤ 5.5                | ≤ 6.0     | ≤ 7.0     | ≤ 5.5                | ≤ 6.0     | ≤ 7.0     | ≤ 6.0                | ≤ 6.5     | ≤ 7.0     | ≤ 6.0              | ≤ 6.5     | ≤ 7.0     |
| Resin Pick up                     | %       | 4.2±1.0              | 4.2±1.2   | 4.2±1.2   | 4.2±1.0              | 4.2±1.2   | 4.2±1.2   | 4.2±1.0              | 4.2±1.0   | 4.2±1.0   | 4.2±1.0            | 4.2±1.2   | 4.2±1.2   |
| Tensile Elongation                | %       | 20±2                 | 20±2      | 20±2      | 20±2                 | 20±2      | 20±2      | 20±2                 | 20±2      | 20±2      | 20±2               | 20±2      | 20±2      |
| Water Ratio                       | %       | ≤ 1.0                | ≤ 1.0     | ≤ 1.0     | ≤ 1.0                | ≤ 1.0     | ≤ 1.0     | ≤ 1.0                | ≤ 1.0     | ≤ 1.0     | ≤ 1.0              | ≤ 1.0     | ≤ 1.0     |
| Shrinkage (in Hot Air 150Cx30Min) | %       | ≤ 4.0                | ≤ 4.0     | ≤ 4.0     | ≤ 4.0                | ≤ 4.0     | ≤ 4.0     | ≤ 4.0                | ≤ 4.0     | ≤ 4.0     | ≤ 4.0              | ≤ 4.0     | ≤ 4.0     |