



## Product Name: TPU 1101

**Polyurethane coated membrane, Nylon fabric.**

**End Use:** Medical & Light weight vest.

| Properties                                       | Typical Characteristics      |                            |
|--------------------------------------------------|------------------------------|----------------------------|
| Test & Method                                    | English                      | Metric                     |
| Base Fabric                                      | Nylon 70 Den<br>1.8 [Oz/yd²] | Nylon 78 Dtx<br>60 [gr/m²] |
| Total Weight<br>ASTM D 751                       | 6.3 [Oz/yd²]                 | 215 [gr/m²]                |
| Total Weight<br>ISO 3801                         | 6.3 [Oz/yd²]                 | 215 [gr/m²]                |
| Breaking Strength - Strip<br>ASTM D 751 method B | 80 / 50 [lbs/inch]           | 700 / 450 [N/5 cm]         |
| Elongation<br>ASTM D 751 method B                | 35 / 35 [%]                  |                            |
| Tensile Strength<br>ISO 13934 - 1                | 140 / 100 [lbs]              | 625 / 450 [N]              |
| Elongation<br>ISO 13934 - 1                      | 30 / 40 [%]                  |                            |
| Tear strength<br>ISO 13937 - 2                   | 2.5 / 2.0 [lbs]              | 11 / 9 [N]                 |
| Tear strength - Double Rip<br>ISO 4674           | 4.8 / 4.8 [lbs]              | 22 / 22 [N]                |
| Tear strength - Trapez<br>DIN 53363              | 5 / 4 [lbs]                  | 23 / 18 [N]                |
| Coating Adhesion (HF Welding)<br>ISO 2411        | 22 / 22 [lbs/inch]           | 200 / 200 [N/5 cm]         |
| Seam Adhesion<br>ASTM F88 & ASTM D5035 2C-E      | 56 / 45 [lbs/inch]           | 500 / 400 [N/5 cm]         |
| Hydrostatic pressure<br>ISO 811                  | 40 [psi]                     | 2750 [mbar]                |
| Air Porosity<br>B.S. 4F 100 Clause 32.1          | Pass (10 min at 7 psi)       |                            |