

## Technical Specifications

### Lubrizol ESTANE® 3D TPU M95A

Hardness Shore A .....	95
Specific Gravity .....	1.17
Abrasion Volume Loss, X .....	140 mm <sup>3</sup>
Abrasion Volume Loss, Z .....	120 mm <sup>3</sup>
Tensile strength, max load, X .....	11 MPa
Tensile strength, max load, Z .....	5 MPa
Elongation at break, X .....	180%
Elongation at break, Z .....	30%
Tear strength (Die C), X .....	80 kN/m
Tear strength (Die C), Z .....	33 kN/m
Flexural Modulus, X .....	85 MPa
Dimensional accuracy, XY* .....	+/- 1.0 mm

\*Dimensional properties were measured with the dimensions ranged from 3 to 100 mm.

Lubrizol ESTANE 3D TPU has passed skin sensitization and cytotoxicity tests  
in accordance with ISO 10993-5 and 10993-10.