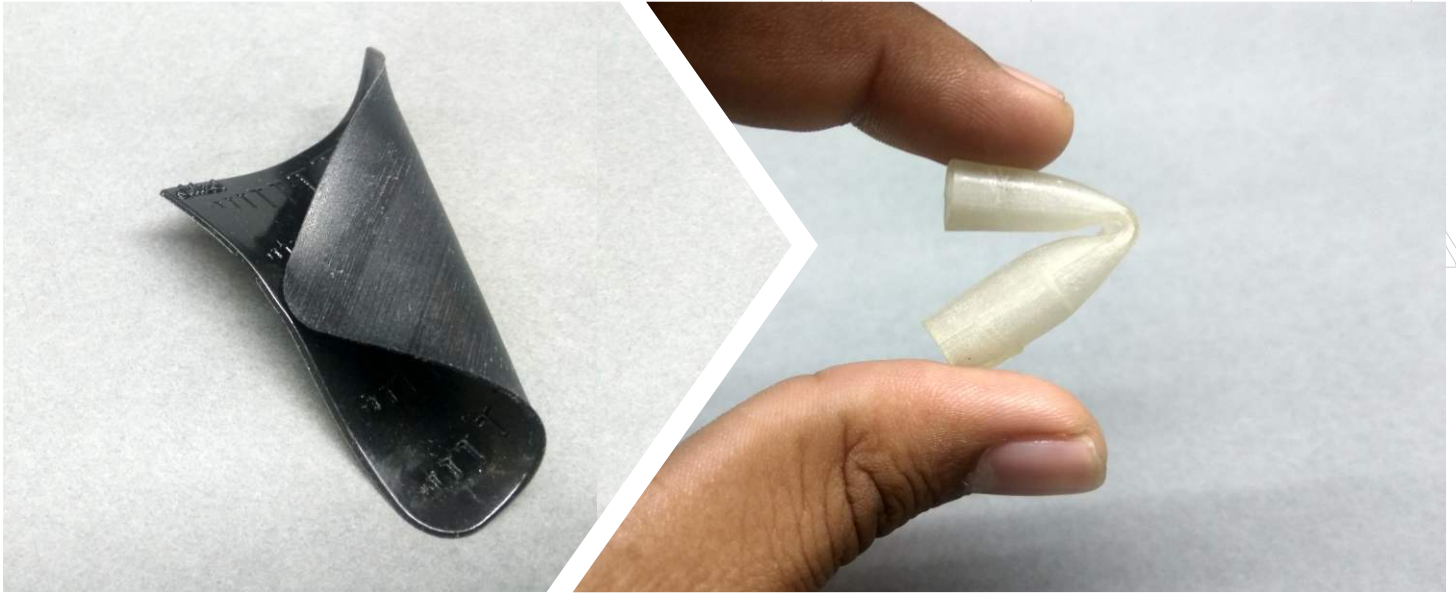


## Tango-Elastic



### Generic Data :

|                    |                            |
|--------------------|----------------------------|
| Technical Name     | Tango BlackPlus/Tango Plus |
| Process            | Polyjet                    |
| Layer Thickness    | 16 $\mu\text{m}$           |
| Accuracy           | (+/-)100-200 $\mu\text{m}$ |
| Maximum Build Size | 490x390x200 mm             |

Tango-Elastic is part of the Tango family which consists of a range of materials viz. Tango Plus, Tango BlackPlus etc. These are flexible materials which have shore hardness as low as 27-30A. Tango-Elastic material comes in either Yellowish-clear or Black color, but it can be blended with Ultra Detail Plastic photopolymer to attain a range of colors along with varying shore hardness(30A - 85A) and translucency.

Tango-Elastic parts can be made matte or glossy during manufacturing itself. Since Tango-Elastic parts are fabricated in Polyjet technology, they have support structure generation. The supports are wax-like supports which can be removed manually or with the help of a water-jet.

### Characteristics

- + High degree of elasticity with smooth surface finish
- + Excellent feature retention capability and dimensional accuracy
- + Can be blended with Rigid materials
- + Post-processed part quality in as-build condition
- Unsuitable for severe mechanical applications

### Applications

- ✓ Small Aesthetic parts and display models with intricate features
- ✓ Parts with multi-material capabilities
- ✓ FMCG and packaging industries

| Material Properties          | Value     | Unit              | Standard Test Method |
|------------------------------|-----------|-------------------|----------------------|
| Polymerized Density          | 1.12-1.13 | g/cm <sup>3</sup> | ASTM D792            |
| Color (Natural)              | Black     | -                 | -                    |
| <b>Mechanical Properties</b> |           |                   |                      |
| Tensile Strength             | 0.8-1.5   | MPa               | D-412                |
| Tensile Modulus              | 1         | MPa               | -                    |
| Elongation at Break          | 170-220   | %                 | D-412                |
| Compressive Set              | 4-5       | %                 | D-395                |
| Tensile Tear resistance      | 2-4       | MPa               | kg/cm                |
| Shore Hardness               | 26-28     | Scale A           | D-2240               |