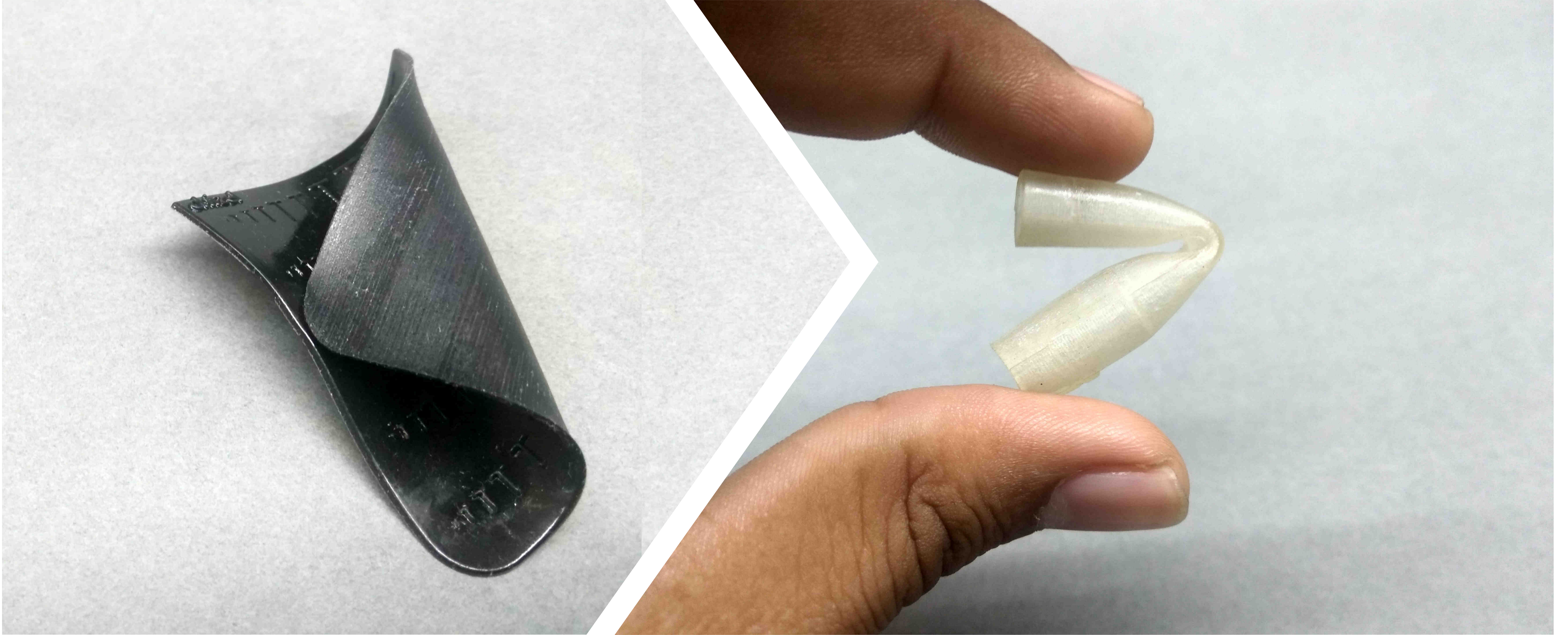


Material Data Sheet

Tango-Elastic



Generic Data :

Technical Name	Tango BlackPlus/Tango Plus
Process	Polyjet
Layer thickness	27 μm
Accuracy	(+/-) 100-200 μm
Maximum Build size	490 x 390 x 200 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
- Inherent grainy surface finish
- Natural white color may dull after repeated use

Applications

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

Material Data Sheet

Material Properties	Value	Units	Standard Test Method
Polymerized Density	1.12-1.13	g/cm ³	ASTM D792
Color (Natural)	Black	-	-
Mechanical Properties			
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