

DIGITAL PHOTOPOLYMER

PRODUCT SPECIFICATIONS

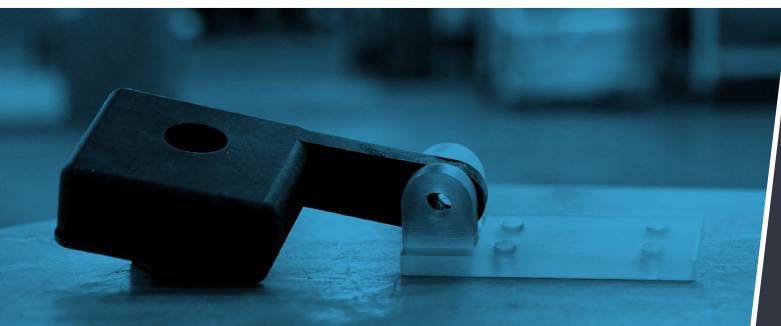


PRODUCT DESCRIPTION:

Protolabs' PolyJet process builds parts comprised of digital photopolymer. The material is available in multiple Shore A hardnesses and colors: clear/translucent, white, and black. It supports complex geometries and can take on a range of mechanical properties.

APPLICATIONS:

Digital photopolymer can be leveraged in a variety of 3D printing applications that incorporate flexible features. It's routinely used to prototype overmolded and liquid silicone rubber parts such as: gaskets, seals, covers, and straps.



KEY PRODUCT BENEFITS

- Two-toned coloring aesthetics
- Soft touch and flexible features
- Improved grip and impact resistance

PROPERTIES:

Digital Material Properties	ASTM Standard	Unit of Measure	Shore A							Rigid
			30	40	50	60	70	85	95	
Tensile Tear Strength	D-624	Kg/cm	5.0-7.0	6.0-8.0	7.0-9.0	7.0-10.0	12.0-14.0	22.0-26.0	26.0-30.0	-
Elongation at Break	D-412	%	220-270	190-210	170-210	150-170	120-140	70-90	50-70	10.0-25.0
Shore Hardness	D-2240	Scale A	30-35	40-50	50-55	55-60	60-70	80-85	85-90	83-86 (D)
Tensile Strength	D-412	MPa	2.4-3.1	3.0-4.0	3.0-4.0	3.5-4.5	4.0-6.0	6.0-10.0	10.0-14.0	50-65