

Other SLA Resins Available

Cosmetic Properties, attributes	DSM Somos DMX SL-100	DSM Somos 9120	DSM Somos O-XT 18420	3D Systems Accura 60	3D Systems Accura 55
SLA Machine	SLA Viper	SLA Viper	SLA 5000, SLA Vipers	SLA 3500	Viper Pro
Platform size	10"x10"x10"	10"x10"x10" (5x5x5 High Res.)	up to 20" x 20" x 24" (5x5x5 High Res.)	13.8" x 13.8" x 11.5"	29.5"x25.6"x21.6"
Common Name (a.k.a.)	DMX	Flex Resin	ProtoGen™	60	55
Color	White	Amber	White	Clear	White
Clarity	Opaque	Translucent	Opaque	Grayish	Opaque
"Simulant" Characteristic	ABS-like	Polypropylene-like	ABS-like	Polycarbonate-like	ABS-Like
Best For...	high impact, toughness	snap features	General purpose	Stiff parts	Large parts
Mechanical Properties					
Tensile Strength ASTM D 638	40-43 MPa (5800-6200 psi)	30-32 MPa (4400-4700 psi)	42.2-43.8 MPa (6100-6400 psi)	58-68 MPa (8410-9860 psi)	58-68 MPa (8410-9860 psi)
Tensile Modulus ASTM D 638	2000-2400 MPa (290000-350000 psi)	1227-1462 MPa (178000-212000 psi)	2180-2310 MPa (313000-336000 psi)	2690-3100 Mpa (390000-450000 psi)	3200-3380 Mpa (460000-490000 psi)
Elongation at Break (%) ASTM D 638	12-20%	15-25%	8-16%	5-13%	5-8%
Flexural Strength ASTM D 790		41-46 MPa (6000-6700 psi)	66.7-70.5 MPa (9700-10200 psi)	87-101 MPa (12620-14650 psi)	88-110 Mpa (12830-15920 psi)
Flexural Modulus ASTM D 790	2100-2300 MPa (305000-355000 psi)	1310-1455 MPa (190000-211000 psi)	1990-2130 MPa (289000-309000 psi)	2700-3000 MPa (392000-435000 psi)	2690-3240 Mpa (390000-470000 psi)
Impact Strength (Notched Izod) ASTM D 256	65-80 j/m (1.2-1.5 ft-lb/in)	48-53 J/m (0.9-1.0 ft-lb/in)	20-22 J/m (0.37-0.41 ft-lb/in)	15-25 J/m (0.3-0.5 ft-lb/in)	12-22 J/m (0.2-0.4 ft-lb/in)
Heat Deflection Temperature @ 66 psi	45° C (113° F)	52-61° C (126-142°F)	53-56°C (127-133°F)	54° C (129° F)	55-58° C (131-136° F)
ASTM D648 @ 264 psi	n/a	n/a	46-47°C (114-116°F)		51-53° C (123-127° F)
Glass Transition (Tg) DMA, E"			57-59°C (135-138°F)	58° C (136° F)	56° C (132° F)
Hardness, Shore D		80-82	86-88	86	85

As a member of the Spectrum Plastics Group, Protogenic can offer additional SLA resins run at our New York facility. The table above is a list of the SLA resins also available to you, if you are interested please ask your Estimator or Project Manager to get you a quote.