PRELIMINARY DATASHEET
SLA

A ScanControl+™ Ready Material:
Optimized performance when used with the Neo®800+ printer.

Somos® Resolute Grey™

Stereolithography

High-Impact, Engineering-Ready Durability

When your engineering team needs to rapidly produce functional prototypes with high-impact resistance and long-term durability, **Somos® Resolute Grey™** delivers. This premium, engineering-ready SLA material is ideal for functional testing applications across industrial, consumer and automotive industries. Developed for demanding mechanical testing, it provides the robust snap-fit durability and dimensional stability required to ensure reliable, long-term performance.

Somos® Resolute Grey™ produces parts that mimic injection molding and features a smooth surface finish in a neutral color straight off the machine. Engineered for accelerated print speeds, **Somos® Resolute Grey™** delivers exceptional side-wall quality and a primer-free color that reduces post-processing, saving development time and labor costs while improving overall production cycles.

Key Benefit

- High-Impact Resistance and Long-Term Durability
- Superior Surface Finish
- High Accuracy and Dimensional Stability

Ideal Applications

- Tough, Durable Functional Prototypes
- Snap-Fit Designs
- Jigs and Fixtures



LIQUID PROPERTIES	
Appearance	Grey
Viscosity	325 ± 50 @ 30°C
Density	-1.10 g/cm @ 25°C

OPTICAL PROPERTIES		
EC	9.3 mJ/cm2	[critical exposure]
DP	4.9 mil (0.124 mm)	[slope of cue-depth vs ln (E) curve]
E10	72 mJ/cm2	[exposure that gives 0.254 mm (.010 inch) thickness]

MECHANICAL PROPERTIES		UV POSTCURE	
ASTM Method	Property Description	Metric	Imperial
D638M	Tensile Strength at Break	30 ± 5 MPa	4.4 ± 0.7 ksi
D638M	Yield Stress	43 ± 5 MPa	6.2 ± 0.7 ksi
D638M	Elongation at Break	20 ± 5%	
D638M	Elongation at Yield	3.4 ± 0.1%	
D638M	Tensile Modulus	2400 ± 300 MPa	350 ± 43 ksi
D790M	Flexural Strength	TBD	TBD
D738	Flexural Modulus	TBD	TBD
D256A	Izod Impact (Notched)	35 ± 5 J/m	0.65 ± 0.1 ft-lb/in
D570-98	Water Absorption	0.4%	

MECHANICAL PROPERTIES		UV POSTCURE	
ASTM Method	Property Description	Metric	Imperial
E831-05	C.T.E. -40 - 0°C (-40 - 32°F)	TBD	TBD
E831-05	C.T.E. 0 - 50°C (32 - 122°F)	TBD	TBD
E831-05	C.T.E. 50 - 100°C (122 - 212°F)	TBD	TBD
E831-05	C.T.E. 100 - 150°C (212 - 302°F)	TBD	TBD
D150-98	Dielectric Constant 60 Hz	TBD	
D150-98	Dielectric Constant 1 KHz	TBD	
D150-98	Dielectric Constant 1 MHz	TBD	
D149-97a	Dielectric Strength	TBD	TBD
D5023	Tg	42 ± 1 °C	108 ± 2 °F
D648	HDT @ 0.46 MPa (66 psi)	51 ± 2 °C	124 ± 2 °F
D648	HDT @ 1.81 MPa (264 psi)	TBD	TBD

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PRELIMINARY DATA SHEET
SLA

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