

DSM Somos® NeXt LV Grey

Category : Polymer , Rapid Prototyping Polymer

Material Notes:

The second member of the Somos® NeXt family, Somos® NeXt LV Grey delivers the durability and functionality, with a finer resolution of details and faster part processing. This third-generation, high-impact Somos® material is designed for creating tough, high-quality, complex parts that are more resistant to fracture and cracking than standard SL resins—leading to a longer pattern life. Somos® NeXt LV Grey produces durable, grey parts with high resolution detail. The ABS-like parts have a high modulus while maintaining a low viscosity for easier cleaning and reduced part processing times. This solution is ideal for functional end-use performance prototypes including snap-fit designs, impellers, duct work, connectors and electronic covers, automotive housings and dashboard assemblies, packaging and sporting goods. We serve the aerospace, automotive, consumer products and electronics industry segments with this solution.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Somos-NeXt-LV-Grey.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	
Water Absorption	0.36 - 0.40 %	0.36 - 0.40 %	UV Postcure; ASTM D570-98
Viscosity	480 cP	480 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	UV Postcure; ASTM D2240
Tensile Strength, Yield	60.0 - 66.0 MPa	8700 - 9570 psi	ASTM D638M
Elongation at Break	4.6 - 7.2 %	4.6 - 7.2 %	UV Postcure; ASTM D638M
Elongation at Yield	3.0 %	3.0 %	UV Postcure; ASTM D638M
Tensile Modulus	2.97 - 3.285 GPa	431 - 476.5 ksi	UV Postcure; ASTM D638M
Flexural Modulus	1.843 - 2.017 GPa	267.3 - 292.5 ksi	UV Postcure; ASTM D790M
Izod Impact, Notched	0.300 - 0.350 J/cm	0.562 - 0.656 ft-lb/in	UV Postcure; ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear	74.3 - 80.5 µm/m-°C	41.3 - 44.7 µin/in-°F	UV Postcure, before Tg; ASTM E831-06
	@Temperature <=44.0 °C	@Temperature <=111 °F	
	218 - 236 µm/m-°C	121 - 131 µin/in-°F	UV Postcure, after Tg; ASTM E831-06
	@Temperature >=44.0	@Temperature >=111	

Thermal Properties	°C Metric	°F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	53.0 - 57.0 °C	127 - 135 °F	UV Postcure; ASTM D648-07
Deflection Temperature at 1.8 MPa (264 psi)	49.0 - 57.0 °C	120 - 135 °F	UV Postcure; ASTM D648-07B
Glass Transition Temp, Tg	40.0 - 48.0 °C	104 - 118 °F	UV Postcure; ASTM E1545-05A

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.75	3.75	ASTM D150-98
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	21.6 - 23.4 kV/mm	549 - 594 kV/in	UV Postcure; ASTM D149-97A
Dissipation Factor	0.020	0.020	UV Postcure; ASTM D150-98
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Appearance	Opaque Grey	
DP (mils)	5.16	Slope of cure-depth vs. ln (E) curve
E10 (mJ/cm2)	101.2	exposure that gives 0.254 mm (0.010 inch) thickness
Ec (mJ/cm2)	14.6	Critical Exposure

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