

Somos® NeXt LV Grey

Unspecified

DSM Somos®

Message:

Somos® NeXt LV Grey creates tough, ABS-like parts with a high modulus while maintaining a low viscosity for effortless cleaning. Somos® NeXt LV Grey has good water resistance and thermal properties. This third generation Somos® high impact material focuses on creating quality resins that can produce tough, complex parts.

Applications

Somos® NeXt LV Grey produces parts that are more resistant to fracture and cracking than standard SL resins. It is ideal for use in functional testing and low-volume manufacturing applications.

This resin is excellent for functional end-use performance parts, especially snap-fit designs, impellers, connectors, and sporting goods.

General Information			
Features	Good Crack Resistance		
	Good Impact Resistance		
	Good Toughness		
	Low Viscosity		
	Moisture Resistant		
Uses	Connectors		
	Engineering Parts		
	Prototyping		
	Sporting Goods		
Appearance	Grey		
	Opaque		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	
Water Absorption (Equilibrium)	0.36 to 0.40	%	ASTM D570
Viscosity (30°C)	480	mPa · s	
Critical Exposure	14.6	mJ/cm ²	
Penetration Depth	131.1	µm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2970 to 3290	MPa	ASTM D638
Tensile Strength (Yield)	60.0 to 66.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	
Break	4.6 to 7.2	%	

Flexural Modulus	1840 to 2020	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30 to 35	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648B
0.45 MPa, Unannealed	53.0 to 57.0	°C	
1.8 MPa, Unannealed	49.0 to 57.0	°C	
Glass Transition Temperature	40.0 to 48.0	°C	ASTM E1545
CLTE - Flow			ASTM E831
-- ¹	7.4E-5 to 8.1E-5	cm/cm/°C	
-- ²	2.2E-4 to 2.4E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	22 to 23	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.75		ASTM D150
Dissipation Factor (1 kHz)	0.020		ASTM D150
NOTE			
1.	before Tg (44°C)		
2.	after Tg (44°C)		

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