

# Megatron® 100L-MOS2

Polyamide 66

Mega Polymers

## Message:

Megatron® 100L-MOS2 is a general purpose, lubricated, polyamide 6/6 resin used for injection molding. The addition of molybdenum disulfide (MOS2) in this grade of Megatron® gives this unique compound additional load-bearing and wear capabilities while still maintaining its impact strength and toughness. "Molly" also adds; low surface friction, increased surface hardness, increased heat resistance, higher tensile properties, and improved dimensional stability over our standard grade of un-filled nylon.

General Information			
Additive	Molybdenum Disulfide Lubricant		
Features	General Purpose		
	Low Friction		
	Lubricated		
Uses	General Purpose		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	1.5 to 3.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	82.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	2800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.5	kJ/m <sup>2</sup>	
23°C	5.5	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	70.0	°C	ISO 75-2/A
Melting Temperature	263	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	50.0 to 90.0	°C	

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Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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