

# Product Data Sheet



## MC® 901 Blue

MC 901 cast nylon is heat stabilized to provide long term thermal stability to 260°F. It is blue in color and used in a variety of bearing and wear and structural applications such as wheels, gears, and custom parts.

Property	Method	Unit	Value
<b>Mechanical</b>			
Specific Gravity, 73°F	D792		1.15
Tensile Strength, 73°F	D638	psi	12,000
Tensile Modulus of Elasticity, 73°F	D638	psi	400,000
Elongation, 73°F	D638	%	20.0
Flexural Strength, 73°F	D790	psi	16,000
Flexural Modulus, 73°F	D790	psi	500,000
Shear Strength, 73°F	D732	psi	11,000
Compressive Strength, 10% Def., 73°F	D695	psi	15,000
Compressive Modulus of Elasticity, 73°F	D695	psi	400,000
Hardness, Rockwell, Scale as noted, 73°F	D785		M85 (R115)
Hardness, Durometer, Shore D scale, 73°F	D2240		D85
Izod Impact (notched), 73°F	D256 Type A	ft-lb/in	0.4
Coefficient of Friction (Dry vs Steel) Dynamic	PTM55007		0.20
Limiting PV, 73°F	PTM55007	psi-fpm	3,000
k (wear) factor	PTM55010		100
<b>Thermal</b>			
Coefficient of linear Thermal Expansion	E-831(TMA)	in/in/°F	5.50 x 10 <sup>-5</sup>
Deflection Temperature 264 psi	D648	°F	200
Melting Point (crystalline) peak	D3418	°F	420
Continuous Service Temperature in Air (Max.)		°F	260
Thermal Conductivity		BTU-in/(hr-ft <sup>2</sup> °F)	1.70

**For additional information about our products call 1-800-366-0300 or via e-mail at [select.support@qplas.com](mailto:select.support@qplas.com)**

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<b>Electrical</b>			
Dielectric Strength, Short Term	D149(2)	Volts/mil	500
Surface Resistivity	EOS/ESD S11.11	Ohm/square	10 <sup>13</sup>
Dielectric Constant, 10 <sup>6</sup> Hz	D150(2)		3.70
<b>Chemical</b>			
Acids, Weak, 73°F/23°C, acetic acid, dilute hydrochloric or sulfuric			Limited Service
Acids, Strong, 73°F/23°C, conc. hydrochloric or sulfuric			Unacceptable
Alkalies, Weak, 73°F/23°C, dilute ammonia or sodium hydroxide			Limited Service
Alkalies, Strong, 73°F/23°C, conc. ammonia or sodium hydroxide			Unacceptable
Hydrocarbons-Aromatic, 73°F/23°C, benzene, toluene			Acceptable Service
Hydrocarbons-Aliphatic, 73°F/23°C, gasoline, hexane, grease			Acceptable Service
Ketones, Esters, 73°F/23°C, acetone, methyl ethyl ketone			Acceptable Service
Ethers, 73°F/23°C, diethyl ether, tetrahydrofuran			Acceptable Service
Chlorinated Solvents, 73°F/23°C, methylene chloride, chloroform			Limited Service
Alcohols, 73°F/23°C, methanol, ethanol, anti-freeze			Limited Service
Inorganic Salt Solutions, 73°F/23°C, sodium chloride, potassium cyanate			Acceptable Service
Continuous Sunlight, 73°F/23°C			Limited Service
<b>Miscellaneous</b>			
Water Absorption Immersion, 24 hr	D570	%	0.30
Water Absorption Immersion, Sat.	D570	%	7.00
<b>Compliance</b>			
UL94			HB

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