

## Quadrant EPP Nylatron® MC® 901 Blue, Heat Stabilized, Type 6 (ASTM Product Data Sheet)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Cast

### Material Notes:

Data provided by Quadrant Engineering Plastic ProductsBroadest size range availabilityGood mechanical and electrical propertiesIdeal balance of strength and toughnessCast as finished parts and near net shapes (nylon 6)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Quadrant-EPP-Nylatron-MC-901-Blue-Heat-Stabilized-Type-6-ASTM-Product-Data-Sheet.php](http://www.lookpolymers.com/polymer_Quadrant-EPP-Nylatron-MC-901-Blue-Heat-Stabilized-Type-6-ASTM-Product-Data-Sheet.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Water Absorption	0.60 %	0.60 %	Immersion, 24hr; ASTM D570(2)
Water Absorption at Saturation	7.0 %	7.0 %	Immersion; ASTM D570(2)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
Hardness, Rockwell R	115	115	ASTM D785
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790
Compressive Strength	103 MPa	15000 psi	10% Def.; ASTM D695
Compressive Modulus	2.76 GPa	400 ksi	ASTM D695
Shear Strength	75.8 MPa	11000 psi	ASTM D732
Izod Impact, Notched	0.214 J/cm	0.400 ft-lb/in	ASTM D256 Type A
Coefficient of Friction, Dynamic	0.20	0.20	Dry vs. Steel; QTM55007
K (wear) Factor	201 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	100 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	QTM 55010
Limiting Pressure Velocity	0.105 MPa-m/sec	3000 psi-ft/min	4:1 safety factor; QTM 55007

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM E831
	@Temperature -40.0 - 149 $^{\circ}\text{C}$	@Temperature -40.0 - 300 $^{\circ}\text{F}$	
Thermal Conductivity	0.342 W/m-K	2.37 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$	ASTM F433
Melting Point	216 $^{\circ}\text{C}$	420 $^{\circ}\text{F}$	Crystalline, Peak; ASTM D3418
Maximum Service Temperature, Air	127 $^{\circ}\text{C}$	260 $^{\circ}\text{F}$	Long Term
Deflection Temperature at 1.8 MPa (264 psi)	93.3 $^{\circ}\text{C}$	200 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	1/8 inch (Estimated Rating)

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	$\geq 1.00\text{e}+13$ ohm	$\geq 1.00\text{e}+13$ ohm	EOS/ESD S11.11
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	Short Term; ASTM D149

Compliance Properties	Metric	English	Comments
3A-Dairy	No	No	
Canada AG	No	No	
FDA	No	No	
NSF	No	No	
USDA	No	No	
USP Class VI	No	No	

Chemical Resistance Properties	Metric	English	Comments
Acids, Strong (pH 1-3)	Unacceptable	Unacceptable	
Acids, Weak	Limited	Limited	
Alcohols	Limited	Limited	
Alkalies, Strong (pH 11-14)	Unacceptable	Unacceptable	
Alkalies, Weak	Limited	Limited	

<b>Chlorinated Solvents Chemical Resistance Properties</b>	<b>Limited Metric</b>	<b>Limited English</b>	<b>Comments</b>
Conductive / Static Dissipative	No	No	
Continuous Sunlight	Limited	Limited	
Hot Water / Steam	Limited	Limited	
Hydrocarbons - Aliphatic	Acceptable	Acceptable	
Hydrocarbons - Aromatic	Acceptable	Acceptable	
Inorganic Salt Solutions	Acceptable	Acceptable	
Ketones, Esters	Acceptable	Acceptable	

<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
Color	Blue	
Machinability	1	1-10, 1=Easier to Machine

## Contact Songhan Plastic Technology Co.,Ltd.

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