



## MECHETEC Nylon im Typical Properties

Property	Test Method	Units	UNIPA im
<b>Mechanical</b>			
Specific Gravity	ASTM D792	---	1.08
Tensile Strength	ASTM D638	psi	7,500
Tensile Elongation	ASTM D638	%	60
Tensile Modulus of Elasticity	ASTM D638	psi	---
Flexural Strength	ASTM D790	psi	---
Flexural Modulus of Elasticity	ASTM D790	psi	245,000
Compression Strength	ASTM D256	psi	---
Izod Notched Impact	ASTM D785	ft.- lb./in	17.0
Rockwell Hardness	ASTM D695	M or R scale	R112
<b>Thermal</b>			
Coef. Of Linear Thermal Expansion	ASTM D696	in./in./°F	$6.7 \times 10^{-5}$
Max Continuous Temp.	Internal Std.	°F	210
Heat Defl. Temp. @ 264 psi	ASTM D648	°F	160
Melting Point	ASTM D3418	°F	504
<b>Electrical</b>			
Dielectric Strength-Short Term	ASTM-DI49	volts/mil	---
Dielectric Constant@ 60 Hz	ASTM-DI50	---	3.2
Dielectric Constant@ 10 <sup>6</sup> Hz	ASTM-DI50	---	2.9
Dissipation Factor@ 60 Hz	ASTM-D150	---	0.01
Volume Resistivity	ASTM-D257	ohm-cm	10 <sup>14</sup>
<b>Miscellaneous</b>			
Water Absorption/24 hours	ASTM D792	--	1.2
Water Absorption @ Saturation	ASTM D570	% weight	6.7
Flammability	UL 94	--	HB
Dynamic Coefficient of Friction	Internal Std.	--	0.29
<b>Agency Compliance</b>			
FDA	---	---	No
USDA	---	---	No
NSF	---	---	No

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