



Nylon 6 30% Glass Filled Technical Data

Property	Test Method	Units	UNIPA MRg
			30% Glass Fiber Filled Nylon 6
Mechanical			
Specific Gravity	ASTM-D792	---	1.28
Tensile Strength	ASTM-D638	psi	18,000
Tensile Elongation	ASTM-D638	%	8
Flexural Strength	ASTM-D790	psi	25,000
Compressive Strength	ASTM-D695	psi	25,000
Izod Notched Impact	ASTM-D256	ft.-lb./in.	1.0
Rockwell Hardness	ASTM-D785	M or R scale	M100
Thermal			
Coef. of Linear Thermal Expansion	ASTM-D696	in./in./deg F	1.5×10^{-5}
Max. Continuous Use Temp.	Nytec std.	°F	210
Heat Deflection Temp. @ 264 psi	ASTM-D648	°F	300
Melting Point	ASTM-D3418	°F	430
Electrical			
Dielectric Strength-Short Term	ASTM-D149	volts/mil	500
Dielectric Constant @ 10 ⁶ Hz	ASTM-D150		3.7
Dissipation Factor @ 60 Hz	ASTM-D150		.02
Volume Resistivity	ASTM-D257	ohm-cm	$>10^{13}$
Miscellaneous			
Water Absorption/24 hrs.	ASTM-D570	% weight	0.4
Water Absorption @ Saturation	ASTM-D570	% weight	3.5
Flammability	UL-94		HB
Dynamic Coefficient of Friction			0.33