

## Nylon 610 Reinforced Grades

Property	Unit	610-I	610-II	610-III	A6G6301	A6G7301	A6MG9301	A6G9301-G
Viscosity Number	g/ml	105 +/-15	135+/-15	180+/-20				
Tensile Strength	Mpa	>50	>50	>50	114	146	153	161
Elongation At Break	%	>100	>100	>100	5	3	4	2
Charpy Notch Impact	KJ/m <sup>2</sup>				27	17	15	18
Bending Strength	Mpa	>50	>50	>50				
Charpy Non-Notch Impact	KJ/m <sup>2</sup>				91	97	86	80
Flexural Strength	MPa				155	203	228	228
Flexural Module	MPa				5100	7585	9300	9600
Granularity	N/g	30 -50	30 -50	30 -50				
Loss on Drying	%	< 1	< 1	< 1				
Relative Density	g/cm <sup>3</sup>	1.07 - 1.13	1.07 - 1.13	1.07 - 1.13				
Melting Pt	C	208 - 220	208 - 220	208 - 220				
Ash Content	%	0	0	0	30	35	45	45

The addition of glass fibers to nylon results in significant increases in tensile strength, modulus, heat distortion temperature, abrasion resistance, and dimensional stability. The enhanced properties allow for under the hood auto applications, etc.

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