PA6 M2500I – MATERIAL PROPERTIES DATA SHEET

English translation of the manufacturer's original datasheet

Manufacturer: Guangdong Xinhui Meida Nylon Co., Ltd. **Material:** PA6 (Nylon 6) **Grade:** M2500I

Physical and Mechanical Properties

Property	Test Standard	Reported Value
Relative viscosity	FZ/T 51004	2.55
Density	Not stated	1.14
Tensile strength at break (MPa)	ASTM D638	65.00
Tensile elongation at break (%)	ASTM D638	24.00
Tensile strength at yield (MPa)	ASTM D638	2,125.00
Flexural strength (MPa)	ASTM D790, Method A	102.00
Flexural modulus (MPa)	ASTM D790, Method A	2,104.00
Notched impact strength (J/m)	ASTM D256, Method A	60.00
Molding shrinkage (%)	ASTM D955	1.80
Melt flow index (g/10 min)	ASTM D1238, Method A	25.60
Heat deflection temperature (°C)	ASTM D648, Method B	69.60
Hardness, Shore D	ASTM D2240	74
Flammability rating	UL94	V-2

Color Specifications (Chromaticity)

Parameter	Reported Value
L* (Lightness)	76.83
a* (Green–Red)	-2.28
b* (Blue–Yellow)	-7.03

Manufacturer's Disclaimer (English Translation)

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Engineering Note

The original datasheet reports tensile strength at yield as **2,125.00 MPa**. This is unusually high for conventional unreinforced Nylon 6 and should be confirmed with the manufacturer before engineering use. The value is reproduced exactly as shown in the source; it has not been corrected.

Source: Manufacturer's original PA6 M2500I datasheet: https://www.budind.com/wp-content/uploads/200527Material-data-PA6M2500I.pdf