



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## Polyamide 66/PA 66

<b>Item:</b>	<b>Polyamide 66/PA 66</b>
<b>Description:</b>	Polyamide 66 is a glass fiber reinforced polyamide 66 resin. It's a more robust material, both mechanically and electrically, compared to sheet molding compound and dough molding compound. The flammability index of this material is HB or V0 as per UL 94. Polyamide 66 has high abrasive resistance, good insulating properties, and resistance to organic chemicals like alkalies.

Properties	Units	Test Methods	Typical Values
<i>Physical</i>			
Specific Gravity	--	ASTM D792	1.39
Glass Contents	%	NA	33
Water Absorption (24 hours)	%	ASTM D570	1.2
<i>Mechanical</i>			
Tensile Strength	Kgf/cm <sup>2</sup>	ASTM D638	1,200-1,300
Flexural Strength	Kgf/cm <sup>2</sup>	ASTM D790	2,500-2,800
Impact Strength Izod	J/m	ASTM D256	117
Compressive Strength	Kgf/cm <sup>2</sup>	ASTM D695	NA
<i>Electrical</i>			
Dielectric Strength	KV/mm	ASTM D149	20
Comparative Tracking Index	Volts	BS-5901	>600
ARC Resistance	Secs.	ASTM D495	200
Flammability Index	--	UL 94	HB / V0
Glow Wire Ignition Test Over 3mm Thickness Specimen	°C	IEC-60695-2-13	746 / 930
Hot Wire Ignition Test	Secs.	ASTM D3874	7-15
RTI, Str (Thickness 3mm)	°C	UL 746B	130
RTI, Elect. (thickness 3mm)	°C	UL 746B	130
High Voltage Arc Tracking Rate	mm/min	UL 746A	over 10 through 25.4
High Amp Arc Ignition	mean no, or arcs	UL 746A	>120
Material Group	--	IEC 60112	1
Pollution Degree	--	IEC 60950	3
Insulation Class	--	JIS C 4003	B
Working Temp	°C	--	(-) 40°C to 135°C

Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.