

Polyamide-66 Reinforcement Materials

<i>Product Name</i>	<i>Product Model</i>							
PA66-GF	F15G	F30G	F45G	F50G	Data generated directly after machining (standard climate China)			
<i>Density</i>	1.25g/cm ³	1.38g/cm ³	1.50g/cm ³	1.56g/cm ³				
<i>Colour</i>	<i>Material Properties</i>		<i>Main features</i>		<i>Target Industries</i>			
Natural	<ul style="list-style-type: none"> ➤ Glass Fiber Reinforcement ➤ Hydrolysis Resistance ➤ Injection Molding Grade ➤ Thermal Stability 		<ul style="list-style-type: none"> ➤ high strength ➤ high toughness ➤ good surface ➤ good dimensional stability 		<ul style="list-style-type: none"> ➤ mechanical engineering ➤ automotive industry ➤ power tools ➤ sports equipment 			
<i>Mechanical strength</i>	<i>parameter</i>	<i>value</i>				<i>unit</i>	<i>norm</i>	<i>comment</i>
		F15G	F30G	F45G	F50G			
Tensile strength	50mm/min	140	180	200	210	Mpa	ISO 527-2	1)
Elongation at Break	50mm/min	5.0	4.0	3.0	3.0	%	ISO 527-2	1)For tensile test :specimen 1b
Flexural Strength	2mm/min	220	270	280	300	Mpa	ISO 178	2)
Flexural Modulus	2mm/min	7000	8500	10000	12000	Mpa	ISO 178	2)Specimen 80mm×10mm×4mm
Izod Notched Impact Strength	23°C	7	13	15	17	kJ/m ²	ISO 180	
<i>Thermal performance</i>	<i>parameter</i>	<i>value</i>				<i>unit</i>	<i>norm</i>	<i>comment</i>
Temperature of Deflection Under Load	1.8MPa	225	235	240	242	°C	ISO 75	3)
Temperature of Deflection Under Load	0.45MPa	/	242	245	246	°C	ISO 75	3)Specimen 80mm×10mm×4mm
Melting temperature	/	250	250	250	250	°C	ISO 11375	
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>				<i>unit</i>	<i>norm</i>	<i>comment</i>
Surface resistivity	/	10 ¹⁵	10 ¹⁵	10 ¹⁵	10 ¹⁵	Ω	/	
Volume resistivity	/	10 ¹⁵	10 ¹⁵	10 ¹⁵	10 ¹⁵	Ω·cm	/	
<i>Other properties</i>	<i>parameter</i>	<i>value</i>				<i>unit</i>	<i>norm</i>	<i>comment</i>
Water absorption	24h,23°C	1.0	0.7	0.5	0.4	%	ISO 62	
Flammability	/	HB	HB	HB	HB	class	UL94	
Solid Filler Content	1h,600°C	15	30	45	50	%	ISO 3451	
<i>Suggested Temperature</i>		250-280				°C		

The information in this manual is derived from our research and practical experience. We provide this information in good faith, but it does not constitute any warranty and does not assume liability arising from third party litigation. The typical values listed are for reference only and are not intended as a promise of product quality.