

Long-Chain Nylon Reinforcing Material

<i>Product Name</i>	<i>Product Model</i>							
LCPA-GF	LA30G	LB30G	LC30G	LD30G	Data generated directly after machining (standard climate China)			
<i>Density</i>	1.25g/cm ³	1.24g/cm ³	1.31g/cm ³	1.30g/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 Reinforced ➤ Hydrolysis Resistant ➤ Injection Molding Grade 		<ul style="list-style-type: none"> ➤ high strength ➤ low moisture absorption ➤ good surface ➤ good dimensional stability 		<ul style="list-style-type: none"> ➤ mechanical engineering ➤ automotive industry ➤ textile industry 			
<i>Mechanical strength</i>	<i>parameter</i>	<i>value</i>				<i>unit</i>	<i>norm</i>	<i>comment</i>
		LA30G	LB30G	LC30G	LD30G			
Tensile strength	50mm/min	130	140	120	135	Mpa	ISO 527-2	1)
Elongation at Break	50mm/min	5	4	5.0	3.0	%	ISO 527-2	1)For tensile test specimen
Flexural Strength	2mm/min	150	/	150	200	Mpa	ISO 178	2)
Flexural Modulus	2mm/min	8000	/	5800	6600	Mpa	ISO 178	2)Specimen 80mm×10mm×4mm
Izod Notched Impact Strength	23°C	22	13	10.0	13	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	175	165	195	195	°C	ISO 75	3)
Temperature of Deflection Under Load	0.45MPa	180	172	210	210	°C	ISO 75	3)Specimen 80mm×10mm×4mm
Melting temperature	/	190	178	220	220	°C	ISO 11375	
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>				<i>unit</i>	<i>norm</i>	<i>comment</i>
Surface resistivity	/	/	/	/	/	Ω	/	
Volume resistivity	/	/	/	/	/	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	0.15	0.15	0.3	0.3	%	ISO 62	
Flammability	/	HB	HB	HB	HB	class	UL94	
Solid Filler Content	1h,600°C	30	30	30	30	%	ISO 3451	
<i>Suggested Temperature</i>		200-260				°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.