Long-Chain Nylon Reinforcing Material

Product Name	*Product Model*				
LCPA-GF	LA30G	LB30G	LC30G	LD30G	Data generated directly after machining (standard climate China)
Density	1.25g/cm^3	1.24g/cm^3	1.31g/cm^3	1.30g/cm^3	

Colour	*Material Properties*	*Main features*	*Target Industries*
Natural	➢ Glass Fiber Reinforced ➢ Hydrolysis Resistant ➢ Injection Molding Grade	➢ high strength ➢ low moisture absorption ➢ good surface ➢ good dimensional stability	➢ mechanical engineering ➢ automotive industry ➢ textile industry

Mechanical strength	*parameter*	*value*				*unit*	*norm*		*comment*
		LA30G	LB30G	LC30G	LD30G				
Tensile strength	50mm/min	130	140	120	135	Mpa	ISO 527-2	1)	1)For tensile test :specimen 1b 2)Specimen 80mm×10mm×4mm
Elongation at Break	50mm/min	5	4	5.0	3.0	%	ISO 527-2		
Flexural Strength	2mm/min	150	/	150	200	Mpa	ISO 178	2)	
Flexural Modulus	2mm/min	8000	/	5800	6600	Mpa	ISO 178		
Izod Notched Impact Strength	23℃	22	13	10.0	13	kJ/m^2	ISO 180		
Thermal performance	*parameter*	*value*				*unit*	*norm*		*comment*
Temperature of Deflection Under Load	1.8MPa	175	165	195	195	℃	ISO 75	3)	3)Specimen 80mm×10mm×4mm
Temperature of Deflection Under Load	0.45MPa	180	172	210	210	℃	ISO 75		
Melting temperature	/	190	178	220	220	℃	ISO 11375		
Electrical properties	*parameter*	*value*				*unit*	*norm*		*comment*
Surface resistivity	/	/	/	/	/	Ω	/		
Volume resistivity	/	/	/	/	/	Ω·cm	/		
Other properties	*parameter*	*value*				*unit*	*norm*		*comment*
Water absorption	24h,23℃	0.15	0.15	0.3	0.3	%	ISO 62		
Flammability	/	HB	HB	HB	HB	class	UL94		
Solid Filler Content	1h,600℃	30	30	30	30	%	ISO 3451		
Suggested Temperature		200-260				℃			

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