

FRPA6G30TVE
Flame-retardant & Glass Fiber Reinforced Polyamide 6

	Characteristics	High flame-retardant, good fluidity, high strength, excellent processing and impact resistance properties.	
	Applications	Battery holder, Charging gun, electric connector, battery box of new energy vehicles, etc.	

Properties (23℃)	Typical Value ^[1]	Unit	Test Method
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Mechanical

Tensile Stress	150	MPa	ISO 527
Tensile Strain	3	%	ISO 527
Flexural Stress	180	MPa	ISO 178
Flexural Modulus	8000	MPa	ISO 178
Izod Impact Strength (Notched)	9	kJ/m ²	ISO 180

Thermal

Heat Deflection Temperature (0.45MPa)	205	℃	ISO 75
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Other

Density	1.62	g/cm ³	ISO 1183
Volume Resistivity	1E15	Ohms•cm	IEC 60093
Flammability	V-0	Class	UL-94
Mold Shrinkage (MD)	0.3	%	ISO 294
Mold Shrinkage (TD)	0.7	%	ISO 294

Molding Process^[2]

Drying Condition	Temperature		120-140℃	
	Time		4-5 h	
Mold Temperature	30-80 ℃			
Barrel Temperature	Nozzle	Front	Middle	Rear
	240-250℃	240-250℃	230-240℃	200-210℃

Note: [1] These figures are only intended as a guide and should not be used in preparing specifications.

[2] The molding process is only for reference and can be adjusted according to different models and products.