



ChangZhou Yi Yi International Trading Co., Ltd.

PA6T CH245NK

Product description

Material designation	> PA6T-GF45%-V0 <
Colour	Natural colour
Purpose	Connector, socket, switch, power supply terminal, all kinds of casing
Material properties	Good dimensional stability and chemical resistance.
Material shape	Granular
Processing method	Injection molding

Physical property	Condition	Test standard	Data	unit
Density		ASTM D792	1.77	g/cm ³
Mold shrinkage	MD2.00mm	ASTM D995	0.30	%
Mold shrinkage	TD2.00mm	ASTM D995	0.70	%
Water absorption	(23°C, 24 hr)	ASTM D570	0.20	%
Water absorption	(100°C, 24 hr)	ASTM D570	2.8	%
Filling content			45	%

Hardness	Condition	Test standard	Data	unit
Rockwell hardness		ASTM D785	95	M(Scale)

Mechanical properties	Condition	Test standard	Data (normal)	Data (wet)	unit
Tensile strength	23°C	ASTM D638	160	140	MPa
Elongation at break	23°C	ASTM D638	3.0	3.0	%
Bending strength	23°C	ASTM D790	250	210	MPa
Flexural modulus	23°C	ASTM D790	14000	10000	MPa
Notched izod impact strength	23°C	ASTM D256	90.0	100	J/m

Thermal	Condition	Test standard	Data	unit
Heat deflection temperature	1.80MPa No annealing	ASTM D648	290	°C
Glass transition temperature		ASTM D648	85.0	°C
Melting temperature			310	°C
Linear expansion coefficient	MD	ASTM D696	2.5E-5	cm/cm/°C
Linear expansion coefficient	TD	ASTM D696	5.5E-5	cm/cm/°C

Electrical properties	Condition	Test standard	Data	unit
Volume resistance		ASTM D257	1.0E+15	Ω.cm
Insulation strength		ASTM D149	22.0	KV/mm
Dielectric constant		ASTM D150	4.3	1 MHz
Dissipation factor		ASTM D150	0.011	1 MHz

Flammability	Condition	Test standard	Data	unit
Fire protection grade		UL-94	-	V-0

Injection molding condition	Condition	Recommended value	unit
Injection temperature	Rear of screw	315-330	°C
Injection temperature	Middle of spiral tube	315-335	°C

Injection temperature	Spiral tube front	325-340	°C
Die temperature range		325-340	°C
Mold temperature range		90-140	°C