



ChangZhou Yi Yi International Trading Co., Ltd.

PPS CZ-1130

Product description

Material designation	>PPS-CF30%-V0<
Colour	Black
UL file number	E53829
Material properties	Flame retardant
Material shape	Granular
Processing method	Injection molding

Physical property	Condition	Test standard	Data	unit
Density		ASTM D792	1.45	g/cm ³
Mold shrinkage	MD	ASTM D995	0.20	%
Mold shrinkage	TD	ASTM D995	1.00	%
Water absorption	(23°C, 24 hr)	ASTM D570	0.02	%

Hardness	Condition	Test standard	Data	unit
Rockwell hardness		ASTM D785	100	M(Scale)
Rockwell hardness		ASTM D785	121	R

Mechanical properties	Condition	Test standard	Data	unit
Tensile strength	23°C	ASTM D638	200	MPa
Elongation at break	23°C	ASTM D638	1.2	%
Tensile modulus	23°C	ASTM D638	22000	MPa
Poisson ratio		ASTM E132	0.37	
Bending strength	23°C	ASTM D790	290	MPa
Flexural modulus	23°C	ASTM D790	20000	MPa
Notched izod impact strength	23°C	ASTM D256	65	J/m
Friction coefficient	Dynamic	ASTM D3702	0.25	
Friction coefficient	Static state	ASTM D3702	0.25	

Thermal	Condition	Test standard	Data	unit
Heat deformation temperature	1.80MPa No annealing	ASTM D648	265	°C
Linear expansion coefficient	MD	ASTM D696	1.4E-5	cm/cm/°C
Linear expansion coefficient	TD	ASTM D696	1.4E-5	cm/cm/°C

Electrical properties	Condition	Test standard	Data	unit
Volume resistance		ASTM D257	1.0E+2	Ω.cm

Flammability	Condition	Test standard	Data	unit
Fire protection grade		UL-94	0.69 mm	V-0

Injection molding condition	Condition	Recommended value	unit
Injection temperature range	Rear of screw	300-340	°C
Injection temperature range	Middle of spiral tube	300-340	°C
Injection temperature range	Spiral tube front	300-340	°C

Mold temperature range	120-150	°C	
Extrusion condition	Condition	Recommended value	Company
Drying temperature range	75-75	°C	
Drying time	3.0	Hr	