



ChangZhou Yi Yi International Trading Co., Ltd.

PS 1400

Product description

Material designation	>GPPS<
Colour	Black
Material properties	Crystal / Universal
Material shape	Granular
Processing method	Injection molding

Physical property	Condition	Test standard	Data	unit
Density		ASTM D792	1.04	g/cm ³
Mold shrinkage	MD	ASTM D995	0.3-0.6	%
Water absorption	(23°C, 24 hr)	ASTM D570	<0.10	%
Melt flow index	200°C5.0Kg	ASTM D570	14	g/10min

Hardness	Condition	Test standard	Data	unit
Rockwell hardness		ASTM D785	74	M(Scale)

Mechanical properties	Condition	Test standard	Data	unit
Tensile strength	23°C	ASTM D638	40	MPa
Elongation at break	23°C	ASTM D638	2.0	%
Tensile modulus	23°C	ASTM D638	2380	MPa
Flexural modulus	23°C	ASTM D790	3035	MPa
Notched izod impact strength	23°C	ASTM D256	16	J/m

Thermal	Condition	Test standard	Data	unit
Heat deformation temperature	1.80MPa No annealing	ASTM D648	78	°C

Electrical properties	Condition	Test standard	Data	unit
Volume resistance		ASTM D257	>1.0E+16	Ω.cm
Dielectric constant	100HZ	ASTM D150	2.50	

Flammability	Condition	Test standard	Data	unit
Fire protection grade		UL-94	1.50mm	HB