



ChangZhou Yi Yi International Trading Co., Ltd.

PA6 9B21730 W

Product description

Material designation	>PA6-MD30%<
Colour	Natural colour
Material properties	Flame retardant, anti warp
Material shape	Granular
Processing method	Injection molding

Physical property	Condition	Test standard	Data	unit
Density		ISO 1183	1.35	g/cm ³
Mold shrinkage	MD2.0mm	ISO 294-4	0.30	%
Mold shrinkage	TD2.0mm	ISO 294-4	1.00	%
Water absorption	(23°C, 24 hr)	ISO 62	6.50	%
Water absorption	(23°C, 50RH)	ISO 62	2.10	%

Mechanical properties	Condition	Test standard	Data	unit
Tensile strength	23°C	ISO 527-2	110	MPa
Tensile modulus	23°C	ISO 527-2	6000	MPa
Bending strength	23°C	ISO 178	170	MPa
Flexural modulus	23°C	ISO 178	5500	MPa
Charpy notched impact strength	23°C	ISO 179/1eA	7.0	kJ/m ²
Charpy notched impact strength	-30°C	ISO 179/1eA	6.0	kJ/m ²
Notched impact strength of simply supported beam	23°C	ISO 179/1eU	50	kJ/m ²
Notched impact strength of simply supported beam	-30°C	ISO 179/1eU	45	kJ/m ²
Notched izod impact strength	23°C	ISO 180/1A	8.0	kJ/m ²
Notched izod impact strength	-30°C	ISO 180/1A	7.0	kJ/m ²

Thermal	Condition	Test standard	Data	unit
Heat deflection temperature	0.45MPa No annealing	ISO 75-2/Bf	215	°C
Heat deflection temperature	1.80MPa No annealing	ISO 75-2/Af	195	°C
Vst		ISO 306/B50	210	°C
Melting temperature		ISO 11357-3	223	°C

Electrical properties	Condition	Test standard	Data	unit
Volume resistivity		IEC 60093	1.0E+15	Ω.cm
Surface resistivity		IEC 60093	1.0E+13	Ω.cm
Comparative Tracking Index		IEC 60112	500	V

Flammability	Condition	Test standard	Data	unit
Fire protection grade		UL-94	1.60 mm	HB
Fire protection grade		UL-94	3.20 mm	HB
The relative temperature of glow wire	2.0mm	IEC 60695-2-13	650	°C

Injection molding condition	Condition	Recommended value	unit
Drying temperature range		80-	°C

Drying time	2.0	Hr
Moisture content	0.20	%
Mold temperature range	50-110	°C