



ChangZhou Yi Yi International Trading Co., Ltd.

PA46 GV30 H1 schwarz

Product description

Material designation	>PA46-GF30%<
Colour	Black
Purpose	Parts under the hood of a car
Material properties	Good liquidity and thermal stability
Material shape	Granular
Processing method	Injection molding

Physical property	Condition	Test standard	Data	unit
Density		ISO 1183	1.41	g/cm ³
Mold shrinkage	MD	ISO 294-4	0.60	%
Mold shrinkage	TD	ISO 294-4	0.90	%
Water absorption	(saturated, 23°C)	ISO 62	7.50	%
Water absorption	(balance, 23°C, 50% RH)	ISO 62	2.00	%
Viscosity number		ISO 307	140	cm ³ /g

Hardness	Condition	Test standard	Data	unit
Ball pressure hardness		ISO 2039-1	250	MPa

Mechanical properties	Condition	Test standard	Data	unit
Tensile strength	23°C	ISO 527-2	200	MPa
Elongation at break	23°C	ISO 527-2	3.70	%
Tensile modulus	23°C	ISO 527-2	10500	MPa
Bending strength	23°C	ISO 178	250	MPa
Flexural modulus	23°C	ISO 178	8800	MPa
Notched izod Impact Strength	23°C	ISO 179/1eA	11	kJ/m ²
Unnotched izod Impact Strength	23°C	ISO 179/1eU	75	kJ/m ²

Thermal	Condition	Test standard	Data	unit
Heat deflection temperature	0.45MPa No annealing	ISO 75-2/Bf	290	°C
Heat deflection temperature	1.80MPa No annealing	ISO 75-2/Af	290	°C
Melting temperature		ISO 11357-3	295	°C

Electrical properties	Condition	Test standard	Data	unit
Insulation strength		IEC 60243-1	28	KV/mm
Dielectric constant		IEC 60250	3.50	1 MHz
Comparative Tracking Index		IEC 60112	275	V

Flammability	Condition	Test standard	Data	unit
Fire protection grade		UL-94	1.60mm	HB
Fire protection grade		UL-94	3.20mm	HB