



ChangZhou Yi Yi International Trading Co., Ltd.

ABS AN450

Product description

Material designation	>ABS-V0<
Colour	Natural colour
Material properties	Not reinforced, flame retardant
Material shape	Granular
Processing method	Injection molding

Physical property	Condition	Test standard	Data	unit
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Density		ASTM D792	1.23	g/cm ³
Melt flow index	220°C10.0Kg	ASTM D570	6.5	g/10min

Hardness	Condition	Test standard	Data	unit
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Rockwell hardness		ASTM D785	105	R
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Mechanical properties	Condition	Test standard	Data	unit
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Tensile strength	yield , 23°C	ASTM D638	42.1	MPa
Bending strength	yield , 23°C	ASTM D790	63.4	MPa
Flexural modulus	23°C	ASTM D790	2140	MPa
Notched izod impact strength	23°C	ASTM D256	182	J/m
Notched izod impact strength	6.35mm	ASTM D256	128	J/m

Thermal property	Condition	Test standard	Data	unit
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Heat deflection temperature	0.45MPa No annealing	ASTM D648	83.0	°C
Heat deflection temperature	1.80MPa No annealing	ASTM D648	75.0	°C

Flammability	Condition	Test standard	Data	unit
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Fire protection grade		UL-94	3.20mm	V-0
Fire protection grade		UL-94	1.60mm	V-0

Injection molding condition	Condition	Recommended value	unit
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Drying temperature range		87.8-93.3	°C
Drying time		2-24	Hr
Injection temperature range	Rear of screw	177-	°C
Injection temperature range	Middle of spiral tube	204-	°C
Injection temperature range	Spiral tube front	216-	°C
Die temperature range		232-249	°C
Mold temperature range		54.4-71.1	°C