

DATASHEET COMPARISON

ASTM Property


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ISO Property



INFINO	Grade	WP-1071
	Resin Type	PC/ABS

PC/ABS material with the characteristic of high-impact resistance and high heat resistance that can be used for automobile wheel cover and door handle

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.14
Melt Flow Index	ASTM D1238	250l, 10kg	g/10min	24
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.4-0.7
Mold Shrinkage(MD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.4-0.7
Mechanical				
Tensile Strength at Yield	ASTM D638	50mm/min	kgf/cm ²	475
Tensile Strain at break	ASTM D638	50mm/min	%	102
Tensile Modulus	ASTM D638	50mm/min	kgf/cm ²	17900
Tensile Strength at break	ASTM D638	50mm/min	kgf/cm ²	485
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	650
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	17340
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf-cm/cm	51
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23°C	kgf-cm/cm	60
Izod Impact Strength(notched)	ASTM D256	1/4 inch at -30°C	kgf-cm/cm	44
Izod Impact Strength(notched)	ASTM D256	1/8 inch at -30°C	kgf-cm/cm	54
Rockwell Hardness	ASTM D785	R-Scale	-	107
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	°C	116
Heat Deflection Temperature	ASTM D648	4.6kgf/cm ² , 6.4mm	°C	132
VICAT Softening Temperature	ISO 306	B/50	°C	132
Flammability				

Flammability

Flammability

UL94

HB

mm

1.5,3.0

1. The above figures are the representative values based on NP, which may vary from color to color, and can be used as a reference only for the purpose of selecting materials.
2. The above figures are basic guidelines for selecting materials; therefore, they are not regarded as the official specifications for materials involved, and cannot be used for the purpose of designing a mold.
3. The above values can be adjusted in accordance with processing conditions, and the specific change in value is allowed only within a limited range in which adjustment has no adverse or negative impact on the final product.

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