

DATASHEET COMPARISON

ASTM Property


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ISO Property



INFINO	Grade	WP-1041
	Resin Type	PC/ABS

Automotive

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.09
Melt Flow Index	ASTM D1238	250l, 10kg	g/10min	35
Melt Flow Index	ASTM D1238	250l, 2.16kg	g/10min	4
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	490
Tensile Strain at break	ASTM D638	50mm/min	%	25
Tensile Modulus	ASTM D638	50mm/min	kgf/cm ²	19400
Tensile Strength at break	ASTM D638	50mm/min	kgf/cm ²	400
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	670
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	19000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf-cm/cm	40
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23°C	kgf-cm/cm	55
Izod Impact Strength(notched)	ASTM D256	1/4 inch at -30°C	kgf-cm/cm	27
Izod Impact Strength(notched)	ASTM D256	1/8 inch at -30°C	kgf-cm/cm	45
Rockwell Hardness	ASTM D785	R-Scale	-	103
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	°C	99
Heat Deflection Temperature	ASTM D648	4.6kgf/cm ² , 6.4mm	°C	120
VICAT Softening Temperature	ISO 306	B/50	°C	110

Thermal				
Linear Thermal Coefficient	ASTM E831	Flow at 40~100°C	$\times 10^{-5} \text{cm/cm/}^{\circ}\text{C}$	8.5

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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