

ASTM Property

INFINO.	Grade	MR-1005
	Resine Type	PC

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or Representative color	-	1.2
Melt Flow Index	ASTM D1238	300°C/1.2kg	g/10min	7.5
Water Absorption	ASTM D570	23°C	%	0.2
Mold Shrinkage	ASTM D955	Flow at 3.2mm	%	0.4~0.6
Mechanical				
Tensile Strength at yield	ASTM D638	50mm/min	kgf/cm ²	680
Tensile Modulus	ASTM D638	50mm/min	kgf/cm ²	24,000
Tensile Strength at break	ASTM D638	50mm/min	kgf/cm ²	640
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	900
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	22,000
Impact Strength, Notched	ASTM D256	at 23°C, 1/8 inch	kgf-cm/cm	95
Rockwell Hardness	ASTM D785	R-Scale	-	120
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	°C	126
		4.6kgf/cm ² , 6.4mm	°C	134
VICAT Softening Temperature	ASTM D1525	Vicat B test / 50N	°C	141
Flammability				
Flammability	UL 94	V-2	mm	0.8~3.0
Optical				
Transmissivity	ASTM D1003	2.5mm	%	Min. 75
Haze	ASTM D1003	2.5mm	%	Max 1.0

1. The value above is the representative value of the NP standard and may have deviation. It can only be used for selecting materials.

2. The value above shall not be regarded as a material specification and cannot be used for molding designs.

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