ISO Property

INFINO

Grade	WP-1089
Resin Type	PC/ABS

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ISO 1183	Natural or representative color	-	1.13
Melt Flow Index	ISO 1133	250℃, 10kg	g/10min	47
Melt Flow Index	ISO 1133	260℃, 5kg	g/10min	27
Mold Shrinkage(MD)	ISO 2577	Flow at 3.2mm(MD)	%	0.5-0.6
Mold Shrinkage(TD)	ISO 2577	X-Flow at 3.2mm(TD)	%	0.5-0.6
Mechanical				
Tensile Strength at Yield	ISO 527	50mm/min	MPa	52
Tensile Strain at break	ISO 527	50mm/min	%	60
Tensile Modulus	ISO 527	50mm/min	MPa	2100
Tensile Strength at break	ISO 527	50mm/min	MPa	45
Flexural Strength	ISO 178	2mm/min	MPa	80
Flexural Modulus	ISO 178	2mm/min	MPa	2200
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	KJ/m^2	46
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	KJ/m^2	51
Izod Impact Strength (notched)	ISO 180 1A	at -30°C, 4mm	KJ/m^2	32
Rockwell Hardness	ISO 2039-2	R-scale	-	110
Thermal				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	-
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	-
Heat Deflection Temperature(Annealing)	ISO 75-2	1.8MPa, 4.0mm	°C	107
Heat Deflection Temperature(Annealing)	ISO 75-2	0.45MPa, 4.0mm	°C	126
VICAT Softening Temperature	ISO R 306	B/50	°C	126
Linear Thermal Coefficient	ISO 11359-1/-2	Flow at 40~100°C	x10^-5cm/cm/°C	8.1
Linear Thermal Coefficient	ISO 11359-1/-2	X-Flow at 40~100°C	x10^-5cm/cm/°C	8.3

1. The value above is the representative value of the NP or representative color 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.

※ The last update date : 03/27/2015