DATASHEET COMPARISON

ISO Property

LOTTE CHEMICAL

ASTM Property | ISO Property

INFINO	Grade	WP-1100
	Resin Type	PC/ABS/GF

Automotive

Item	Measuning Method	Condition	Unit	Value
Physical				
Specific Gravity	ISO 1183	Natural or representative	-	1.21
Melt Flow Index	ISO 1133	250℃, 10kg	g/10min	41
ASH content	ISO 3451	-	%	10
Mechanical				
Tensile Strength at Yield	ISO 527	5mm/min	MPa	83
Tensile Strain at break	ISO 527	5mm/min	%	4.4
Tensile Modulus	ISO 527	5mm/min	MPa	3200
Tensile Strength at Break	ISO 527	5mm/min	MPa	90
Flexural Strength	ISO 178	2mm/min	MPa	135
Flexural Modulus	ISO 178	2mm/min	MPa	4300
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	kJ/m^2	9.5
Izod Impact Strength (unnotched)	ISO 180 1A	at -30°C, 4mm	kJ/m^2	6.3
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m^2	11.5
Charpy Impact Strength (V-notched)	ISO 179 1eA	at -30°C, 4mm	kJ/m^2	10
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m^2	58
Charpy Impact Strength (Unnotched)	ISO 179 1eA	at -30°C, 4mm	kJ/m^2	55
Rockwell Hardness	ISO 2039-2	R-scale	-	-
Thermal properties				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	℃	119
Heat Deflection	ISO 75-2	0.45MPa, 4.0mm	℃	129

Thermal properties				
Temperature(Unannealed)				
VICAT Softening Temperature	ISO 306	B/50	℃	131
Linear Thermal Coefficient	ISO 11359-1/-2	Flow at 40~100°C	x10^-5cm/cm/°C	0.39
Linear Thermal Coefficient	ISO 11359-1/-2	X-Flow at 40~100°C	x10^-5cm/cm/°C	0.65

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.

* The last update date
: 2020/05/08