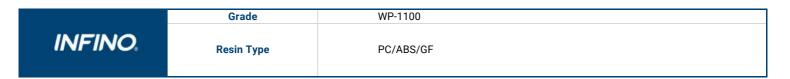




**ASTM Property** 

ISO Property



## Automotive

Item	Measuning Method	Condition	Unit	Value			
		Physical					
Specific Gravity	ISO 1183	Natural or representative	-	1.21			
Melt Flow Index	ISO 1133	250l, 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/m²	9.5			
Izod Impact Strength (unnotched)	ISO 180 1A	at -30°C, 4mm	kJ/m²	6.3			
Charpy Impact Strength (V- notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m²	11.5			
Charpy Impact Strength (V- notched)	ISO 179 1eA	at -30°C, 4mm	kJ/m²	10			
Charpy Impact Strength (V- notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m²	58			
Charpy Impact Strength (Unnotched)	ISO 179 1eA	at -30°C, 4mm	kJ/m²	55			
Rockwell Hardness	ISO 2039-2	R-scale	-	-			
Thermal properties							
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	119			
Heat Deflection	ISO 75-2	0.45MPa, 4.0mm	°C	129			

Temperature(Unannealed)							
VICAT Softening Temperature	ISO 306	B/50	°C	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			

Thermal properties

- 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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\* The last update date

: 2020/05/08

