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ASTM Property

ISO Property

	Grade	GR-4017	
storex [®]	Resin Type	ABS/GF	

Automotive

ltem	Measuning Method	Condition	Unit	Value		
Physical						
Specific Gravity	ISO 1183	Natural or representative	-	1.17		
Melt Flow Index	ISO 1133	2201, 10kg	g/10min	17.2		
Mold Shrinkage(MD)	ISO 294-4	Flow at 2mm(MD)	%	-		
Mold Shrinkage(TD)	ISO 294-4	X-Flow at 2mm(TD)	%	-		
ASH content	ISO 3451	-	%	17		
Mechanical						
Tensile Strength at Yield	ISO 527	50mm/min	MPa	93		
Tensile Strain at break	ISO 527	50mm/min	%	3		
Tensile Modulus	ISO 527	50mm/min	MPa	5200		
Tensile Strength at Break	ISO 527	50mm/min	MPa	93		
Flexural Strength	ISO 178	2mm/min	MPa	131		
Flexural Modulus	ISO 178	2mm/min	MPa	5800		
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	kJ/m ²	8		
Charpy Impact Strength (V- notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m ²	8.6		
Rockwell Hardness	ISO 2039-2	R-scale	-	117		
Thermal properties						
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	100		
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	105		
Heat Deflection Temperature(Annealing)	ISO 75-2	1.8MPa, 4.0mm	°C	105		
Heat Deflection Temperature(Annealing)	ISO 75-2	0.45MPa, 4.0mm	°C	109		

Thermal properties						
VICAT Softening Temperature	ISO 306	B/50	°C	105		
VICAT Softening Temperature	ISO 306	B/120	°C	107		

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

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