



ASTM Property

ISO Property

starex°	Grade	WR-9130	
	Resin Type	ASA	

Building & Construction

Item	Measuning Method	Condition	Unit	Value		
		Physical				
Specific Gravity	ISO 1183	Natural or representative	-	1.06		
Melt Flow Index	ISO 1133	220l, 10kg	g/10min	10		
Mold Shrinkage(MD)	ISO 294-4	Flow at 2mm(MD)	%	0.4-0.7		
Mold Shrinkage(TD)	ISO 294-4	X-Flow at 2mm(TD)	%	-		
Mechanical						
Tensile Strength at Yield	ISO 527	50mm/min	MPa	40		
Tensile Strain at break	ISO 527	50mm/min	%	-		
Tensile Modulus	ISO 527	50mm/min	MPa	-		
Tensile Strength at Break	ISO 527	50mm/min	MPa	-		
Flexural Strength	ISO 178	2mm/min	MPa	57		
Flexural Modulus	ISO 178	2mm/min	MPa	1600		
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	kJ/m²	-		
Charpy Impact Strength (V- notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m²	11		
Rockwell Hardness	ISO 2039-2	R-scale	-	-		
Thermal properties						
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	75		
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	-		
Flame-retarded						
Flammability	UL94	НВ	mm	1.5		

- 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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