



<b>starex<sup>®</sup></b>	<b>Grade</b>	SD-0190H
	<b>Resin Type</b>	ABS

Home Appliances, Helmet

Item	Measuring Method	Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ISO 1183	Natural or representative	-	1.04
Melt Flow Index	ISO 1133	220l, 10kg	g/10min	8.5
<b>Mechanical</b>				
Tensile Strength at Yield	ISO 527	50mm/min	MPa	35
Tensile Strain at break	ISO 527	50mm/min	%	18
Tensile Modulus	ISO 527	50mm/min	MPa	1800
Tensile Strength at Break	ISO 527	50mm/min	MPa	30
Flexural Strength	ISO 178	2mm/min	MPa	50
Flexural Modulus	ISO 178	2mm/min	MPa	1700
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	kJ/m <sup>2</sup>	42
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m <sup>2</sup>	43
Rockwell Hardness	ISO 2039-2	R-scale	-	93
<b>Thermal properties</b>				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	74
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	92
Heat Deflection Temperature(Annealing)	ISO 75-2	1.8MPa, 4.0mm	°C	98
Heat Deflection Temperature(Annealing)	ISO 75-2	0.45MPa, 4.0mm	°C	103
VICAT Softening Temperature	ISO 306	B/50	°C	95
VICAT Softening Temperature	ISO 306	B/120	°C	97

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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