

PHYSICAL PROPERTIES OF STAREX ABS SD-0150W

Properties at 23°C	Test Method	Test Condition	Unit	Value
Physical Properties				
Specific Gravity	ASTM D792	Ivory Color	g/cm³	1.04
Water absorbtion	ASTM D570	24hr,immersion in water	%	0.3
Melt Flow Index	ASTM D1238	200°C/5Kg	g/10min	2.0
		220°C/10Kg	g/10min	18.0
		230°C/3.8Kg	g/10min	8.0
Mold Shrinkage	ASTM D955		%	0.3~0.6
Gloss	ASTM D523		%	95
Mechanical Properties				
Tensile Strength	ASTM D638	5mm/min	MPa (psi)	46 (6,540)
Elongation at Break	ASTM D638	5mm/min	%	20
Flexural Strength	ASTM D790	2.8mm/min	MPa (psi)	64 (9,100)
Flexural Modulus	ASTM D790	2.8mm/min	MPa (psi)	2,200 (312,000)
Izod Impact Strength (notched)	ASTM D256	1/4 inch	kg.cm/cm	20
		1/8 inch	kg.cm/cm	32
Rockwell Hardness	ASTM D785	R-scale	-	106
Thermal Properties				
Heat Deflection Temperature (unannealed),1/4"	ASTM D648	18.56Kg/cm²	°C	85
		4.6Kg/cm²	°C	95
Vicat Softening Temperature (unannealed)	ASTM D1525	5Kg/cm²	°C	96
		1Kg/cm²	°C	105
Flammability				
UL 94 Classification	UL94	1.5mm specimen	Recognized	HB
		3.0mm specimen	Recognized	HB
		6.0mm specimen	Recognized	HB
UV Resistance	ASTM D4459	300Hr Ivory color	Delta E	

* The above values are only the representatives of natural color specimen, not supplementary.

* Last revised ; 99/28/10