

PHYSICAL PROPERTIES OF STAREX ABS VE-0812

Properties at 23°C	Test Method	Test Condition	Unit	Value
Physical Properties				
Specific Gravity	ASTM D792	Ivory Color	g/cm ³	1.19
Water absorption	ASTM D570	24hr,immersion in water	%	0.3
Melt Flow Index	ASTM D1238	200°C/5Kg	g/10min	3.4
		220°C/10Kg	g/10min	32.0
		230°C/3.8Kg	g/10min	10.0
Mold Shrinkage	ASTM D955		%	0.3~0.6
Gloss	ASTM D523		%	
Mechanical Properties				
Tensile Strength	ASTM D638	5mm/min	MPa (psi)	41 (5,830)
Elongation at Break	ASTM D638	5mm/min	%	15
Flexural Strength	ASTM D790	2.8mm/min	MPa (psi)	56 (7,970)
Flexural Modulus	ASTM D790	2.8mm/min	MPa (psi)	2,350 (334,000)
Izod Impact Strength (notched)	ASTM D256	1/4 inch	kg.cm/cm	17
		1/8 inch	kg.cm/cm	20
Rockwell Hardness	ASTM D785	R-scale	-	98
Thermal Properties				
Heat Deflection Temperature (unannealed),1/4"	ASTM D648	18.56Kg/cm ²	°C	81
		4.6Kg/cm ²	°C	90
Vicat Softening Temperature (unannealed)	ASTM D1525	5Kg/cm ²	°C	92
		1Kg/cm ²	°C	100
Flammability				
UL 94 Classification	UL94	1.5mm specimen	Recognized	V-0
		2.5mm specimen	Recognized	V-0
		3.0mm specimen	Recognized	V-0
UV Resistance	ASTM D4459	300Hr Ivory color	Delta E	< 3

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

* Last revised ; 99/27/10