

Classification General ABS > Impact Resistance

Characteristics Super Impact Resistance

Applications Ski, Golf club heads, Sport equipment, Suitcases, etc.

Test Item	ASTM	Test Condition	Unit	Typical Property
Tensile Strength	D638	23℃, 50mm/min	kg/cm ² (psi)	380 (5,400)
Elongation	D638	50mm/min	%	40
Flexural Strength	D790	23℃	kg/cm ² (psi)	580 (8,200)
Flexural Modulus	D790	23℃	kg/cm ² (psi)	18,000 (275,000)
Rockwell Hardness	D785	R scale	—	98
IZOD Impact Strength	D256	6.4mm, Notched, 23℃ (73°F)	kg·cm/cm (ft·lb/in)	40 (7.3)
Heat Distortion Temp.	D648	18.6kg/cm ² (264psi), unannealed	℃ (°F)	80 (176)
Vicat Softening Temp.	D1525	—	℃ (°F)	—
Melt Flow Index	D1238	200℃, 5.0kg	g/10min	1.5
		200℃, 10.0kg		15.0
		200℃, 21.6kg		25.0
Mold Shrinkage	D955		%	0.4~0.7
Specific Gravity	D792	23℃	g/cc	1.04
Water Absorbtion	D570	24hr, Immersion in water	%	—
Flammability	UL*	1/16" (1.6mm)	Rating	HB

*) UL File No.E65424 (CSA File No. LS66457)

Note1) These are typical property values, not specification.

Note2) In case of colored products, the values could slightly differ by color.

Note3) Values are measured at 23℃ and in RH of 50% on injection molded specimens.