

**Technical Data Sheet**

**ABS-50**

Acrylonitrile Butadiene Styrene

**Characteristic:** Medium Impact, High rigidity

**Applications:** Electronic and Electrical parts, vacuum cleaner, washing machine cover and Refrigerator door cap & etc.

Properties	Test method (ASTM)	Test condition	Units	Value	ABS-50 Specification
Izod impact	D-256	6.4 mm ,notched	Kj/m <sup>2</sup>	23	Min19
Melt flow index	D-1238	220°C , 10 kg	gr/10min	35	29-39
Rock well hardness	D-785	...	R-scale	109	95-115
HDT	D-648	1.82 m pa	°c	85	Min82
Vicat softening Temp	D-1525	5kg/50°C	°c	95	Min 93
Tensile strength	D-638	23°C , 50 mm/min	Kg/cm <sup>2</sup>	455	Min 420
Tensile elongation	D-638	23°C , 50 mm/min	%	20	Min 16
Flexural strength	D-790	23°C , 2.8 mm/min	Kg/cm <sup>2</sup>	650	Min 620
Flexural Modulus	D-790	23°C , 2.8mm/min	Kg/cm <sup>2</sup>	22000	Min17000
Specific Gravity	D-792	23°C		1.04	1.04
Molding Shrinkage	D-955	...	%	0.4-0.7	0.4-0.7
Flammability	UI94	1/8inch(3.2mm)	...	HB	HB

A moisture level of ≤0.1% should be reached before injection molding the resin.

Some modifications may be required depending on the specific molding equipment and part configuration.

ABS 50 is produced in two color codes: 10415, 10442

**Packing:** 25 Kg bags