

Technical Data Sheet (ASTM)

ABS(Acrylonitrile Butadiene Styrene)

ABS 750

Features	General easy flow, medium impact strength
Applications	Electronics, Household appliances, Miscellaneous goods

Physical	Test Method	Value
Density	ASTM D792	1.04 g/cm ³
Melt Flow Index (220°C, 10kg)	ASTM D1238	35 g/10min
Melt Flow Index (200°C, 21.6kg)	ASTM D1238	48 g/10min
Mold Shrinkage	ASTM D955	0.5 ~ 0.8 %
Water absorption	ASTM D570	- %
Mechanical	Test Method	Value
Tensile Strength	ASTM D638	465 kgf/cm ² (6,510) (psi)
Elongation	ASTM D638	20 %
Flexural Strength	ASTM D790	650 kgf/cm ² (9,100) (psi)
Flexural Modulus	ASTM D790	22,000 kgf/cm ² (312,400) (psi)
Izod Impact Strength(3.2mm, 23°C)	ASTM D256	30 kgf-cm/cm (7.0) (ft-lb/in)
Izod Impact Strength(6.4mm, 23°C)	ASTM D256	28 kgf-cm/cm (5.1) (ft-lb/in)
Rockwell Hardness(R scale)	ASTM D785	108
Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm ²)	ASTM D648	85 °C (185) (°F)
Vicat Softening Temperature(5kg, 50°C/h)	ASTM D1525	95 °C (203) (°F)
Flammability	Test Method	Value
Flame Rating - UL (1.6mm)	UL 94	HB

Notes

These are just typical properties, not specifications. Users should confirm results by their own test.