

Technical Data Sheet (ASTM)

ABS(Acrylonitrile Butadiene Styrene)

ABS 710G

Features Plating, Adhesion strength reinforced
Applications Automobile parts, Cosmetics cases, Refrigerator knobs, Various Knobs

Physical	Test Method	Value
Density	ASTM D792	1.04 g/cm ³
Melt Flow Index (220°C, 10kg)	ASTM D1238	20 g/10min
Melt Flow Index (200°C, 21.6kg)	ASTM D1238	30 g/10min
Mold Shrinkage	ASTM D955	0.5 ~ 0.8 %
Water absorption	ASTM D570	- %
Mechanical	Test Method	Value
Tensile Strength	ASTM D638	440 kgf/cm ² (5,740) (psi)
Elongation	ASTM D638	20 %
Flexural Strength	ASTM D790	630 kgf/cm ² (8,820) (psi)
Flexural Modulus	ASTM D790	21,000 kgf/cm ² (298,200) (psi)
Izod Impact Strength(3.2mm, 23°C)	ASTM D256	35 kgf-cm/cm (6.4) (ft-lb/in)
Izod Impact Strength(6.4mm, 23°C)	ASTM D256	30 kgf-cm/cm (5.5) (ft-lb/in)
Rockwell Hardness(R scale)	ASTM D785	102
Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm ²)	ASTM D648	84 °C (183) (°F)
Vicat Softening Temperature(5kg, 50°C/h)	ASTM D1525	94 °C (201) (°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.