

Technical Data Sheet (ASTM)

ABS(Acrylonitrile Butadiene Styrene) HGX4500

Features	Ultra high heat resistance
Applications	Automobile parts, Mirror housing, Radiator grills, Rear lamp housings

Physical	Test Method	Value
Density	ASTM D792	1.07 g/cm ³
Melt Flow Index (230°C, 21.6kg)	ASTM D1238	35 g/10min
Water absorption	ASTM D570	- %
Mold Shrinkage	ASTM D955	0.5 ~ 0.8 %

Mechanical	Test Method	Value
Tensile Strength	ASTM D638	45 MPa
Elongation	ASTM D638	15 %
Flexural Strength	ASTM D790	63 MPa
Flexural Modulus	ASTM D790	2,140 MPa
Izod Impact Strength(3.2mm, 23°C)	ASTM D256	130 J/m
Izod Impact Strength(6.4mm, 23°C)	ASTM D256	110 J/m
Rockwell Hardness(R scale)	ASTM D785	110

Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm ²)	ASTM D648	111 °C
Vicat Softening Temperature(5kg, 50°C/h)	ASTM D1525	121 °C

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.