

Technical Data Sheet (ISO)

ABS(Acrylonitrile Butadiene Styrene)

ABS 745

Features Super impact resistance
Applications Helmets, Suitcase

Physical	Test Method	Value
Specific gravity	ISO 1183	1.04
Melt Flow Index (220°C, 10kg)	ISO 1133	10 g/10min
Water absorption	ISO 62	- %
Mold Shrinkage	ISO 294-4	0.5 ~ 0.8 %

Mechanical	Test Method	Value
Tensile Strength(at yield)	ISO 527	40 Mpa
Elongation(at break)	ISO 527	28 %
Flexural Strength	ISO 178	59 MPa
Flexural Modulus	ISO 178	2,100 Mpa
Izod Impact Strength(23°C)	ISO 180/1A	36 KJ/m ²
Charpy Impact Strength(23°C)	ISO 179/1eA	37 KJ/m ²
Rockwell Hardness(R scale)	ISO 2039-2	98

Thermal	Test Method	Value
Heat Deflection Temperature(1.8Mpa, Unannealed)	ISO 75-2	79 °C
Heat Deflection Temperature(0.45Mpa, Unannealed)	ISO 75-2	90 °C
Vicat Softening Temperature(B50)	ISO 306	94 °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.