

Technical Data Sheet (ISO)

ABS(Acrylonitrile Butadiene Styrene)

ABS 740

Features

High impact resistance

Applications

Automobile parts(radiator grill etc), Helmets, Toys

Physical	Test Method	Value
Specific gravity	ISO 1183	1.04
Melt Flow Index (220°C, 10kg)	ISO 1133	25 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	27 %
Flexural Strength	ISO 178	59 MPa
Flexural Modulus	ISO 178	2,000 Mpa
Izod Impact Strength(23°C)	ISO 180/1A	31 KJ/m ²
Charpy Impact Strength(23°C)	ISO 179/1eA	32 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.