

Tough 65C Black

Production Rigid

Black plastic for long-term use parts with a good combination of impact strength, elongation, and tensile strength.



Applications

- Load-bearing parts such as handles, cranks, knobs, and levers.
- Structural parts like brackets, snap-fits, and custom fasteners
- Snap parts requiring detail and accuracy for consumer products, sporting goods, and general use
- Latching and board connectors for data devices and white goods
- Sensor holders and guides



Physical Properties

Colour	Black
Type	ABS

Mechanical Properties

		TEST/ISO
Solid Density	1.22 g/cm³	ASTM D792
Tensile Strength (MPa)	40	ASTM D638
Tensile Modulus (MPa)	1700	
Elongation at Break (%)	35	
Elongation at Yield (%)	6.6	
Flexural Strength (MPa)	60	ASTM D790
Flexural Modulus (MPa)	1600	
Notched Izod Impact Strength (J/m)	31	ASTM D256
Unnotched Izod Impact Strength (J/m)	100	ASTM D4812
Heat Deflection Temperature (°C)		ASTM D648
@ 0.455 MPA	70	
@ 1.82 MPA	51	
Shore Hardness	81 D	ASTM D2240
24hr Water Absorption (%)	0.62	ASTM D570

Electrical

Dielectric Strength (kV/mm) @3mm	13	ASTM D149
Dielectric Constant @ 1MHz	3.75	ASTM D150
Dissipation Factor @ 1MHz	0.037	
Volume Resistivity (ohm-cm)	3.37x10¹⁵	ASTM D257

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