

Rigid Gray

Production Rigid

High contrast grey plastic for long term use parts with balanced thermal and mechanical properties.



Applications

- Static rigid production components like housings and covers
- Small parts requiring detail and accuracy for consumer products and general use
- Parts requiring painting, plating, and laser-etching
- Functional prototyping and low volume production parts where visualization of features is critical



Physical Properties

Colour	Grey
Type	ABS

Mechanical Properties

		TEST/ISO
Solid Density	1.15g/cm³	ASTM D792
Tensile Strength (MPa)	61	ASTM D638 Type IV
Tensile Modulus (MPa)	2400	
Elongation at Break (%)	30	
Elongation at Yield (%)	4.60	
Flexural Strength (MPa)	87	ASTM D790
Flexural Modulus (MPa)	2200	
Notched Izod Impact Strength (J/m)	21	ASTM D256
Unnotched Izod Impact Strength (J/m)	150	ASTM D4812
Heat Deflection Temperature (°C)		ASTM D648
@ 0.45 MPA	72	
@ 1.82 MPA	59	
Co-efficient of Thermal Expansion (ppm/°C)		ASTM E831
-40 to 30C	81	
65 to 145C	166	
Glass Transition (Tg)		DMA, E''
Shore Hardness	82D	ASTM D2240
24hr Water Absorption (%)	0.99	ASTM D570

Electrical

Dielectric Strength (kV/mm) @3mm	15	ASTM D149
Dielectric Constant @ 1kHz	3.27	ASTM D150
Dissipation Factor @ 1kHz	0.02	
Volume Resistivity (ohm-cm)	7.16x10¹⁵	ASTM D257

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Please be advised that all information provided in this document is representative of typical properties and as advised by the material manufacturer. Performance characteristics of these products may vary according to product application, operating conditions or with end use.

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