

TOUGH GREY 10

Production Rigid

High speed material for the production of rigid parts

Simulating a dark grey ABS, the Tough Grey 10 has strong stability and durability for a range of applications.



Benefits

- Available very fast – up to 100mm/hour print speed
- Extremely stable, including in high-humidity conditions
- Durable – high elongation at break

Applications

- Rapid design iteration
- Strong functional parts for:
 - Automotive styling parts
 - Form, fit and function testing
 - Durable assemblies and snap fits
 - Bezels, covers, cases
 - Master patterns for RTV molding or other uses
- Short-run manufacturing of rigid parts
- Consumer goods
- Ready for painting or plating



Physical Properties

Colour	Dark Grey
Type	ABS

Liquid Material

Solid Density (@ 25°C)	1.11g/cm ³
Layer Thickness (mm)	0.05

Mechanical Properties

		TEST/ISO
Tensile Strength (MPa)	50	ASTM D638
Tensile Modulus (MPa)	2180	
Elongation at Break (%)	25	
Elongation at Yield (%)	4	ASTM D790
Flexural Strength (MPa)	75	
Flexural Modulus (MPa)	2070	ASTM D256
Notched Izod Impact Strength (J/m)	29	
Unnotched Izod Impact Strength (J/m)	598	ASTM D4812
Heat Deflection Temperature (°C)		ASTM D648
@ 0.45 MPA	59	
@ 1.82 MPA	51	
Co-efficient of Thermal Expansion (ppm/°C)		ASTM E831
<T _g	93	
>T _g	165	
Glass Transition (T _g)	58	DMA, E''
Shore Hardness	81D	ASTM D2240

Water Absorption (%)	0.34	ASTM D570
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Call: 028 9070 6940

Email: sales@laserproto.com

Web: www.laserproto.com

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