



'Tough Black' PA 1102



Application:

'Tough Black' PA 1102, made from a renewable resource, castor beans, is a flexible product making it particularly suited to production of end use parts requiring flex or which have living hinges, clips, latches or other closures. Parts which are in situations of heavy use will benefit from being produced in PA 11 'Tough Black' as the resulting part will be tough and will wear well, will be resilient and resistant to shattering or splitting. The 'Tough Black' powder is "mass coloured" which means that each particle of the nylon powder is solid black.

Material Specification: 'Tough Black' PA 1102		
Colour	Black	
Material Properties:		
Density of Laser Sintered Part	0.99g/cm ³	
Mechanical Properties:	Build Direction	
	X - Y	Z
Tensile Modulus	1700 ± 200MPa	1680 ± 200MPa
Tensile Strength	52 ± 5MPa	52 ± 5MPa
Elongation at Break	38 ± 8%	27 ± 8%
Thermal Properties:		
Melting Point	201°C	

For further technical information or to obtain a quotation for your parts, please contact us on +44 (0)1635 580284 or email your 3D CAD data to enquiries@3trpd.co.uk

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