

# EOS PA 2202 black

Polyamide 12

EOS GmbH

## Message:

PA 2202 black is a pigment-filled polyamide 12 powder for manufacturing laser sintered parts that are black throughout. All other part properties are comparable to those of PA 2200. Typical applications for the material are fully functional parts in design quality subject to high mechanical or thermal loads. The parts are black and often look better in technical areas than white parts. As this colour is throughout, scratches or subsequent holes do not degrade the appearance. The parts are also less susceptible to soiling, as soiling is less conspicuous against the black background. The black colour can also be used to differentiate the parts from parts in other colours to prevent confusion.

General Information			
Uses	Engineering Parts		
	Prototyping		
Appearance	Black		
Forms	Powder		
Processing Method	3D Printing, Laser Sintering/Melting		
Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm <sup>3</sup>	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- <sup>1</sup>	1800	MPa	ISO 527-2
-- <sup>2</sup>	1850	MPa	ISO 527-2
Tensile Stress			
-- <sup>3</sup>	48.0	MPa	ISO 527-2
-- <sup>4</sup>	50.0	MPa	ISO 527-2
Tensile Strain			
Break <sup>5</sup>	6.0	%	ISO 527-2
Break <sup>6</sup>	12	%	ISO 527-2
Flexural Modulus <sup>7</sup> (23°C)	1350	MPa	ISO 178
Flexural Stress <sup>8</sup>	53.0	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature <sup>9</sup>			
0.45 MPa, Unannealed	154	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	°C	ISO 75-2/A
Melting Temperature <sup>10</sup>	176	°C	ISO 11357
NOTE			
1.	Z Direction		
2.	X Direction		

3.	Z Direction
4.	Y Direction
5.	Z Direction
6.	Y Direction
7.	X Direction
8.	X Direction
9.	X Direction
10.	20°C/min

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