

# PA 2200

## production based on PA 12

Mechanical properties	Standard	Unit	Values *
Coefficient of elasticity	ISO 527-1/-2		
x-direction		MPa	1650
y-direction		MPa	1650
z-direction		MPa	1650
Tensile strength	ISO 527-1/-2		
x-direction		MPa	48
y-direction		MPa	48
z-direction		MPa	42
Breaking elongation	ISO 527-1/-2		
x-direction		%	18
y-direction		%	18
z-direction		%	4
Flexural modulus of elasticity	ISO 178		
x-direction		MPa	1500
Impact toughness (Charpy)	ISO 179-1/1eU		
x-direction		kJ/m <sup>2</sup>	53
Notched impact toughness (Charpy)	ISO 179-1/1eA		
x-direction		kJ/m <sup>2</sup>	4.8
Izod impact strength	ISO 180/1A		
x-direction		kJ/m <sup>2</sup>	4.4
Shore hardness D	ISO 868		
x-direction		-	75

Thermal properties	Standard	Unit	Values *
Melting temperature	ISO 11357-1/-3	°C	176
Vicat softening temperature	ISO 306/B50		
x-direction		°C	176
Temperature of heat resistance	ISO 75-1/-2		
x-direction		°C	64
z-direction		°C	57
Burning behaviour (sample thickness 0,5/1,6/3,2 mm)	UL94		HB/HB/HB

Electrical properties	Standard	Unit	Values *
Electric strength	IEC 60243-1		
x-direction		kV/mm	-
Volume resistivity	DIN EN 62631-3-1		
x-direction		Ohm × cm	-
Surface resistivity	DIN EN 62631-3-2		
x-direction		Ohm	-
Comparative tracking index (CTI)	DIN EN 60112		
x-direction		V	≥ 600
y-direction		V	≥ 600
z-direction		V	≥ 600

Other properties	Standard	Unit	Values *
Density (laser sintered)	EOS method	g/cm <sup>3</sup>	0.93
Powder colour			white
Component colour			white
Food safe according to regulation EU 10/2011			Yes (using Mur-
Food safe according to FDA regulations			No
Detectability			-

### Legend

The property data table, partly based on data from our raw material suppliers, is intended to assist you in quickly comparing plastics and selecting suitable materials. The values given are short-term values that may be influenced by numerous processing, environmental, and application conditions. The suitability of the selected material for its specific application always lies within the responsibility of the customer.

Important note: This data sheet is based on the technical information provided by EOS GmbH – Electro Optical Systems.

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\* measured on dry test specimens  
 \*\* using MurPearl® and MurPearl® Air  
 \*\*\* MDB: metall detecable; VDB: visually detecable