

## POLYMER SOLUTIONS

# PA 2200 Top Quality

## Material Data Sheet

## PA 2200 TOP QUALITY

## Product Description

PA 2200, based on polyamide 12, offers a wide range of applications thanks to its very balanced property profile and is the most proven material on the market.

PA 2200 is also available as the Responsible Product PA 2200 CarbonReduced. It combines a heavily reduced CO<sub>2</sub>e footprint with the well-known technical properties of PA 2200.

The parameter set Top Quality is used for very small to medium-sized parts with extremely fine, fragile geometries and geometric elements and the strictest requirements in surface quality are best served by this parameter set. It applies a layer thickness of 60 µm, which is approximately the thickness of a grain of the plastic powder normally used today. The typical stair-step effect on upward and downward-pointing geometry elements can practically no longer be seen on TopQuality parts. The mechanical attributes of TopQuality parts are satisfyingly close to the levels of Performance parts.

## MAIN CHARACTERISTICS

- Balanced property profile
- Multipurpose material

## TYPICAL APPLICATIONS

- Production equipment like grippers, jigs and fixtures
- Surgery cutting guides and bone models for the medical industry
- Eyewear in the consumer goods industry
- Spare parts like brackets or covers, e.g., in the automotive industry
- Functional parts for prototyping that include hinges or threads

MECHANICAL PROPERTIES	DRY / CONDITIONED	UNIT	TEST STANDARD
<b>Tensile Modulus</b>			ISO 527-1/-2
<b>X Orientation</b>	1800 / -	MPa	
<b>Y Orientation</b>	1800 / -	MPa	
<b>Z Orientation</b>	1750 / -	MPa	
<b>Tensile Strength</b>			ISO 527-1/-2
<b>X Orientation</b>	52 / -	MPa	
<b>Y Orientation</b>	52 / -	MPa	
<b>Z Orientation</b>	52 / -	MPa	
<b>Nominal Strain at Break</b>			ISO 527-1/-2
<b>X Orientation</b>	20 / -	%	
<b>Y Orientation</b>	20 / -	%	
<b>Z Orientation</b>	7 / -	%	
<b>Shore D Hardness</b>			ISO 7619-1
<b>X Orientation</b>	75 / -	-	

OTHER PROPERTIES	VALUE	UNIT	TEST STANDARD
<b>Powder Color</b>	white	-	-
<b>Components Color</b>	white	-	-

**HEADQUARTERS**

<b>EOS GmbH</b> <b>Electro Optical Systems</b>	Robert-Stirling-Ring 1 82152 Krailling / Munich Germany	Tel.: +49 89 893 36-0 Email: <a href="mailto:info@eos.info">info@eos.info</a> URL: <a href="http://www.eos.info">www.eos.info</a>
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