

## POLYMER SOLUTIONS

# PA 2200 CarbonReduced Top Quality

## Material Data Sheet

## PA 2200 CARBONREDUCED TOP QUALITY

## Product Description

PA 2200 CarbonReduced, 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 CarbonReduced is an EOS Responsible Product. 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

- 100% proven quality and 45% less CO<sub>2</sub>e
- Balanced property profile
- Multipurpose material

## TYPICAL APPLICATIONS

- Production equipment like grippers, jigs and fixtures
- Surgery cutting guides and bone models for the medical industry
- Eye wear 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

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