

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 CO₂e 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 CO₂e
- Balanced property profile
- Multipurpose material
- Compliant to (EU) No. 1935/2004 and GMP

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
Tensile Modulus			ISO 527-1/-2
X Orientation	1800 / -	MPa	
Y Orientation	1800 / -	MPa	
Z Orientation	1750 / -	MPa	
Tensile Strength			ISO 527-1/-2
X Orientation	52 / -	MPa	
Y Orientation	52 / -	MPa	
Z Orientation	52 / -	MPa	
Nominal Strain at Break			ISO 527-1/-2
X Orientation	20 / -	%	
Y Orientation	20 / -	%	
Z Orientation	7 / -	%	
Shore D Hardness			ISO 7619-1
X Orientation	75 / -	-	

OTHER PROPERTIES	VALUE	UNIT	TEST STANDARD
Powder Color	white	-	-
Components Color	white	-	-

HEADQUARTERS

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Status as of 21.03.2025. Subject to technical modifications. EOS is certified according to ISO 9001.

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