

POLYMER SOLUTIONS

PA 2200 Performance

Material Data Sheet

PA 2200 PERFORMANCE

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_2e footprint with the well-known technical properties of PA 2200.

Performance is the parameter set of choice for parts with high demands on mechanical properties and fracture behaviour, especially when the part is going to be subjected to multiaxial loading in all three directions. Performance parts are characterized by the highest degree of isotropic strength and rigidity. The choice of $100 \mu m$ layer thickness results in fine resolution and also very high surface quality and detail resolution.

MAIN CHARACTERISTICS

- \longrightarrow Balanced property profile
- → Multipurpose material

TYPICAL APPLICATIONS

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

MECHANICAL PROPERTIES	DRY / CONDITIONED	UNIT	TEST STANDARD
Tensile Modulus X Orientation Y Orientation Z Orientation	1700 / - 1700 / - 1700 / -	MPa MPa MPa	ISO 527-1/-2
Tensile Strength X Orientation Y Orientation Z Orientation	50 / - 50 / - 50 / -	MPa MPa MPa	ISO 527-1/-2
Nominal Strain at Break X Orientation Y Orientation Z Orientation	20 / - 20 / - 10 / -	% % %	ISO 527-1/-2
Shore D Hardness X Orientation	75 / -		ISO 7619-1

THERMAL PROPERTIES	DRY / CONDITIONED	UNIT	TEST STANDARD
-	-	-	-
	-	-	-

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

HEADQUARTERS

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Status as of 11.05.2024. Subject to technical modifications. EOS is certified according to ISO 9001

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