

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 CO₂e 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 µm layer thickness results in fine resolution and also very high surface quality and detail resolution.

MAIN CHARACTERISTICS

- 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	1700 / -	MPa	
Y Orientation	1700 / -	MPa	
Z Orientation	1700 / -	MPa	
Tensile Strength			ISO 527-1/-2
X Orientation	50 / -	MPa	
Y Orientation	50 / -	MPa	
Z Orientation	50 / -	MPa	
Nominal Strain at Break			ISO 527-1/-2
X Orientation	20 / -	%	
Y Orientation	20 / -	%	
Z Orientation	10 / -	%	
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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