



PA 2220 HIGHREUSE

Product Description

EOS PA 2220 HighReuse is a highly efficient polyamide 12 material serving a broad variety of applications thanks to its balanced property profile.

With a reusability rate of 70% and a reduced powder carbon footprint, EOS PA 2220 HighReuse enables printing of leading quality production parts on the EOS P3 Next at competitive costs.

MAIN CHARACTERISTICS

- ightarrow Highly efficient PA12
- ightarrow Balanced property profile
- ightarrow White multipurpose material
- ightarrow Easy to color with state-of-the-art solutions

TYPICAL APPLICATIONS

- ightarrow Eyewear in the consumer goods industry
- \rightarrow Structural components, e.g., brackets
- ightarrow Production equipment like grippers, jigs and fixtures
- ightarrow Spare parts like covers, e.g., in the automotive industry
- ightarrow Functional parts for prototyping incl. integrated hinges or threads

MECHANICAL PROPERTIES	DRY / CONDITIONED	UNIT	TEST STANDARD
Tensile Modulus X Orientation Y Orientation Z Orientation	1800 / 1500 1800 / 1500 1800 / 1300	MPa MPa MPa	ISO 527-1/-2
Tensile Strength X Orientation Y Orientation Z Orientation	48 / 45 48 / 45 48 / 42	MPa MPa MPa	ISO 527-1/-2
Strain at Break X Orientation Y Orientation Z Orientation	10/14 9/15 8/12	% % %	ISO 527-1/-2
Charpy Impact Strength (+23°C) X Orientation Y Orientation Z Orientation	24 / - 23 / - 19 / -	kJ/m² kJ/m² kJ/m²	ISO 179/1eU
Charpy Impact Strength (-30°C) Z Orientation	18 / -	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength (+23°C) X Orientation Y Orientation Z Orientation	2,6 / - 2,3 / - 2,5 / -	kJ/m² kJ/m² kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength (-30°C) Z Orientation	2,1 / -	kJ/m²	ISO 179/1eA
Shore D Hardness X Orientation	79 / -		ISO 7619-1

THERMAL PROPERTIES	DRY / CONDITIONED	UNIT	TEST STANDARD
Melting Temperature	176,5	°C	ISO 11357-1/-3

OTHER PROPERTIES	VALUE	UNIT	TEST STANDARD
Density	0.99	g/cm ³	DIN EN ISO 1183
Powder Color	white	-	-
Components Color	white	-	-

HEADQUARTERS

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Status as of 13.01.2025. Subject to technical modifications. EOS is certified according to ISO 9001.

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