

EOS PA2200

MATERIAL NAME

PA2200

Color

White

MATERIAL GROUP

Nylon

MATERIAL TYPE

Thermoplastic

BRAND

EOS

TECHNOLOGY

SLS, SLM

FEATURES

a. High strength and stiffness b. Good chemical resistance c. Excellent long-term invariable performance 4. High selectivity and detailed analysis d. Possibilities of various finishing (e.g. metallization, glazing, vibration mill, bathtub coloring, adhesion, powder spraying, flocking) e. Biocompatibility conforms to EN ISO 10993-1 and USP/level VI/121 degree C f. Biocompatibility conforms to EU plastic directive approved for food contact 2002/72/EC (example). Exception: High alcohol food)

TECHNICAL SPECIFICATIONS

Mechanical properties	Value	Unit	Test Standard	
Izod Impact notched (23°C)	4.4	kJ/m ²	ISO 180/1A	
Shore D hardness (15s)	75	-	ISO 868	
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Tensile Modulus (X Direction)	1650	MPa	ISO 527-1/-2	
Tensile Modulus (Y Direction)	1650	MPa	ISO 527-1/-2	
Tensile Modulus (Z Direction)	1650	MPa	ISO 527-1/-2	
Tensile Strength (X Direction)	48	MPa	ISO 527-1/-2	
Tensile Strength (Y Direction)	48	MPa	ISO 527-1/-2	
Tensile Strength (Z Direction)	42	MPa	ISO 527-1/-2	
Strain at break (X Direction)	18	%	ISO 527-1/-2	
Strain at break (Y Direction)	18	%	ISO 527-1/-2	
Strain at break (Z Direction)	4	%	ISO 527-1/-2	
Charpy impact strength (+23°C, X Direction)	53	kJ/m ²	ISO 179/1eU	
Charpy notched impact strength (+23°C, X Direction)	4.8	kJ/m ²	ISO 179/1eA	
Flexural Modulus (23°C, X Direction)	1500	MPa	ISO 178	
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Thermal properties		Value	Unit	Test Standard
Melting temperature (20°C/min)	176	°C		ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	163	°C		ISO 306