AN EOS COMPANY

PA 860

NYLON 11

White PA 11 that is formulated for easy processing across all LS platforms. Tightly controlled particle distribution creates a smooth surface finish and excellent feature detail.

HIGHLIGHTS

- → Smooth surface finish nylon 11 with small feature resolution
- → Parts exhibit excellent mechanical properties
- → Specially formulated for properties to be achieved using a single scan

APPLICATIONS

- → Cleated footwear devices
- → Highly functional end use parts
- → Automotive housings, enclosures, and connectors
- → Ideal for applications requiring rigorous fuctionality and testing

HEADQUARTERS

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TYPICAL PHYSICAL PROPERTIES			
PROPERTY	**TEST METHOD**	**IMPERIAL**	**METRIC**
Color/Appearance	Visual	White	White
Bulk Density	ASTM D1895	0.289 oz/in^3	0.5 g/cm^3
Average Particle Size (D50)	Laser Diffraction	0.002 inches	50 microns
Particle Size Range (D10-D90)	Laser Diffraction	0.001 - 0.003 inches	38 - 78 microns
Sintered Part Density	ASTM D792	0.595 oz/in^3	1.03 g/cm^3
Heat Deflection Temperature	ASTM D648	118°F at 264 psi	48°C at 1.82 MPa
Heat Deflection Temperature	ASTM D648	370°F at 66 psi	188°C at 0.45 MPa
Ultimate Tensile Strength (XY)	ASTM D638	6,961 psi	48 MPa
Ultimate Tensile Strength (Z)	ASTM D638	6,092 psi	42 MPa
Tensile Modulus (XY)	ASTM D638	213,931 psi	1,475 MPa
Tensile Modulus (Z)	ASTM D638	206,969 psi	1,427 MPa
Elongation at Break (XY)	ASTM D638	51%	51%
Flexural Modulus	ASTM D790	190,000 psi	1,310 MPa
Izod Impact Strength - Notched	ASTM D256	1.4 ft-lb/in	74 J/m
Hardness (Shore D) ASTM D2240 74 74	ASTM D2240	74	74

The material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change without notice.