



AN EOS COMPANY



# PA 820-MF CN

## NYLON 11

Mineral-Fiber-Filled nylon 11 optimized for high performance and certified as carbon neutral through the entire material supply chain all the way to your door.\*

### HIGHLIGHTS

- Carbon neutral and low emissions
- Good stiffness and mechanical properties
- Easy to process
- High temperature tolerance

### APPLICATIONS

- Sustainable applications
- High-performance impact sports equipment and racing applications
- Mold and tooling applications
- Rugged applications



### HEADQUARTERS

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Responsible  
Manufacturing

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TYPICAL PHYSICAL PROPERTIES			
PROPERTY	TEST METHOD	IMPERIAL	METRIC
Color/Appearance	Visual	Light Gray	Light Gray
Bulk Density	ASTM D1895	0.277 oz/in <sup>3</sup>	0.48 g/cm <sup>3</sup>
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	0.723 oz/in <sup>3</sup>	1.25 g/cm <sup>3</sup>
Heat Deflection Temperature	ASTM D648	Testing in Progress	Testing in Progress
Heat Deflection Temperature	ASTM D648	Testing in Progress	Testing in Progress
Ultimate Tensile Strength (XY)	ASTM D638	7,832 psi	54 MPa
Tensile Modulus (XY)	ASTM D638	531,128 psi	3,662 MPa
Flexural Modulus (XY)	ASTM D790	253,961 psi	1,751 MPa
Elongation at Break (XY)	ASTM D638	7%	4%
Flexural Modulus (XY)	ASTM D790	7,681 psi	53 MPa
Shore Hardness (Shore D)	ASTM D2240	76	76

\*Also available in non-carbon neutral

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.