

ELASTOMERS

TPE 210-S

HIGHLIGHTS

- Soft, white parts out of the machine
- Extreme elongations achievable without permanent deformation
- Easy to infiltrate to obtain maximum properties
- 100% recyclable

APPLICATIONS

- Footwear prototyping
- Automotive gaskets and seals
- Cushioning applications
- Ideal for applications requiring softer parts with excellent ductility and surface finish

TYPICAL PHYSICAL PROPERTIES

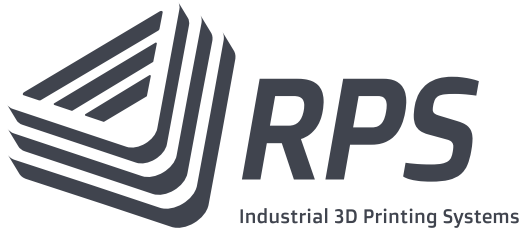
PROPERTY	TEST METHOD	ENGLISH	METRIC
Color/Appearance	Visual	White	White
Bulk Density	ASTM D1895	0.214 oz/in ³	0.37 g/cm ³
Elongation at Break	ASTM D638	110%	110%
Flexural Modulus (-40° C)	ASTM D790	3,336 psi	23 MPa
Flexural Modulus (23° C)	ASTM D790	1,885 psi	13 MPa
Flexural Modulus (100° C)	ASTM D790	435 psi	3 MPa
Initial Tear Resistance, Die C, 23° C	ASTM D624	7.4 lbf	33 N
Abrasion Resistance, Taber H-18 Wheel	ASTM D4060	0.012 oz	535 mg
Shore Hardness, Shore A	ASTM D2240	40	40
Tensile Modulus	ASTM D638	1,160 psi	8 MPa
Average Particle Size (D50)	Laser Diffraction	0.003 inches	85 microns
Particle Size Range (D10-D90)	Laser Diffraction	0.001 - 0.005 inches	20 - 130 microns
Sintered Part Density	ASTM D792	0.595 oz/in ³	1.03 g/cm ³

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.



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About RPS

RPS has been in operation over ten years and our engineers collectively have decades of experience working with stereolithography and laser sintering equipment. With proven experience in 3D printing, engineering, electronics, computer-aided engineering and more, we understand the technology and can offer advice on how it can suit your specific application.

We manufacture the **NEO800** stereolithography system, designed, developed and built by RPS engineers. We are also an HP Channel Partner of HP's Multi-Jet Fusion technology and offer a range of materials and software through our partnership with market-leading suppliers ALM, DSM Somos® and Materialise.

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