

ELASTOMERS

TPE 300

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 D 1895	0.35 oz/in ³	0.60 g/cm ³
Average Particle Size (D50)	Laser Diffraction	0.002 inches	50 microns
Particle Size Range (D10-D90)	Laser Diffraction	0.001 - 0.04 inches	20 - 105 microns
Flexural Modulus (20° C)	ISO 6721-1	10.44 ksi	72 MPa
Flexural Modulus (60° C)	ISO 6721-1	3.92 ksi	27 MPa
Elongation (x-direction)	DIN 53504	267%	267%
Elongation (z-direction)	DIN 53504	180%	180%
Shore Hardness, Shore A	ISO 868	88	88
Abrasion Resistance (x-direction)	ISO 4649	0.002 in ³	31 mm ³
Abrasion Resistance (z-direction)	ISO 4649	0.002 in ³	28 mm ³
Compression Strength (x-direction)	ISO 604	4.79 ksi	33 MPa
Compression Strength (z-direction)	ISO 604	5.80 ksi	40 MPa
Compression Modulus (x-direction)	ISO 604	2.18 ksi	15 MPa
Compression Modulus (z-direction)	ISO 604	2.90 ksi	20 MPa
Tensile Strength (x-direction)	DIN 53504	2.90 ksi	20 MPa
Tensile Strength (z-direction)	DIN 53504	2.18 ksi	15 MPa

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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