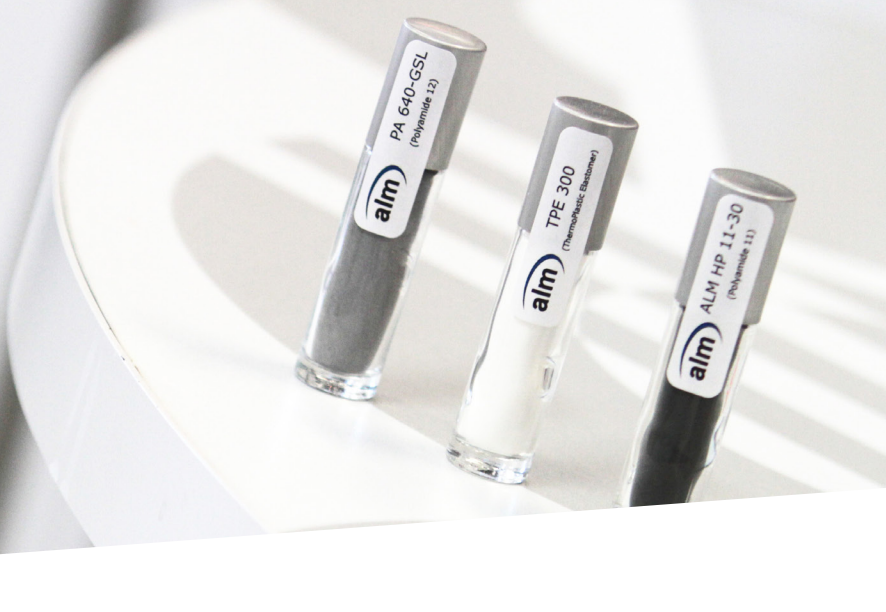
AN EOS COMPANY



TPE 300

ELASTOMERS

This TPU is 92 ShoreA. ALM has extensive experience processing this powder, and it has excellent recyclability.

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 rugged applications requiring stiffness at elevated temperatures
- → Ideal for applications requiring softer parts with excellent ductility and surface finish

HEADQUARTERS

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TPE 300

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TYPICAL PHYSICAL PROPERTIES			
PROPERTY	**TEST METHOD**	**IMPERIAL**	**METRIC**
Color/Appearance	Visual	White	White
Bulk Density	ASTM D1895	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