

# **TPE 360**

### **ELASTOMERS**

This CoPolyester material has excellent physical properties, is easy to process and has 100% recyclability.

#### **HIGHLIGHTS**

- → 100% recyclable
- → Soft, white parts out of the machine
- → Easy to process
- → Toughness and flexibility

#### **APPLICATIONS**

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



### HEADQUARTERS

**ALM - Advanced Laser Materials** 

3115 Lucius McCelvey, Temple, TX 76504 P: 1.254.773.3080

FAX: 1.254.773.3084

E: info@advancedlasermaterials.com

AdvancedLaserMaterials.com

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PROPERTY	TEST METHOD	IMPERIAL	METRIC
Density (tap)	B527-15	0.0191 lb./in <sup>3</sup>	0.53 g/cm <sup>3</sup>
Particle Size (Dv 10)	MicroTrac	0.0018 in	44.6 μm
Particle Size (Dv 50)	MicroTrac	0.0032 in	80.4 μm
Particle Size (Dv 90)	MicroTrac	0.0051 in	130 μm
Molecular weight (M <sub>n</sub> )	GPC	5,968 g/mol	5,968 g/mol
Molecular weight (M <sub>w</sub> )	GPC	31,129 g/mol	31,129 g/mol
Molecular weight (M <sub>z</sub> )	GPC	69,961 g/mol	69,961 g/mol
Density	Mass/volume	0.036 lb./in <sup>3</sup>	0.99 g/cm <sup>3</sup>
Ultimate tensile strength (XY)	ASTM D638	2,500 psi	17 MPa
Ultimate tensile strength (Z)	ASTM D638	2,000 psi	14 MPa
Tensile Modulus (XY)	ASTM D638	20,700 psi	143 MPa
Tensile Modulus (Z)	ASTM D638	19,400 psi	134 MPa
Elongation at break (XY)	ASTM D638	129%	129%
Elongation at break (Z)	ASTM D638	28%	28%
Tear Resistance	ASTM D624	588.15 lb./in	103 N/mm
Compression set, 22h at 70°C	ASTM D395	59.5%	59.5%
Abrasion resistance, Taber, weight loss after 1000 cycles CS-17, 1kg	ASTM D4060	0.0024 oz	67 mg
Shore A Hardness	ASTM D2240	94	94
Melting Temperature	DSC	399.87°F	204.37°C
Crystallization temperature	DSC	301.50°F	149.72°C
Enthalpy of melting	DSC	_	19.62J/g
Enthalpy of crystallization	DSC	_	21.46 cal/g
Viscosity at 1 rad/s, 220 C	Rheology		897 Pa-s

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.