

Sutper®TPE X1010004

Product Description

This product is a type of thermoplastic elastomer (TPE), specifically designed for high-rebound, soft shoe materials. It features excellent physical and mechanical properties, superior chemical resistance, and elasticity, making it ideal for use in the composite footwear industry.

Specifications

Applications	•Shrinkage-resistant Generation 4 materials for high stiffness
Environmental	•RoHS compliant
Appearance	•Translucent
Form	•Granules
Molding method	•Injection molding
Availability	•Europe •North America •Asia •Africa & Middle East

Physical Properties	Typical Value	Unit	Test Method
Density	0.9	g/cm ³	ASTM D792
Melt Flow Index (190°C*2.16kg)	1	g/10min	ASTM D1238

Hardness	Typical Value	Unit	Test Method
Shore A,1sec,23°C	75	A	ASTM D2240

Mechanical Properties	Typical Value	Unit	Test Method
100% Tensile Strength - vertical flow (23°C)	2	Mpa	ASTM D412
Tensile Strength - Vertical Flow (23°C)	18	Mpa	ASTM D412
Break Elongation-Vertical Flow23°C	500	%	ASTM D412
Tear Strength -Vertical Flow 23°C Die C	40	KN/m	ASTM D624

Additional Information

- The above test data were obtained using fan gate injection molded specimens with dimensions of 110 mm × 80 mm × 2 mm. The tensile strength, elongation at break, and stress at a given elongation were tested perpendicular to the flow direction, while tear strength was tested along the flow direction.
- The compression rate for compression set is 25%.
- The properties listed are typical and should not be considered technical specifications or part of an agreement.
- The user should be aware that Sutper needs to confirm all final details before taking any action based on the information and recommendations in this document.

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