

# ISOTHANE® GB1095A-H

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE GB1095A-H is a 94 Shore A, high performance Poly(adipate)ester and environmental TPU based on renewable materials with bio-based content 31%. This renewable resin also features the properties.

Characteristics:

ISOTHANE GB1095A-H product is polyester poly(adipate)ester based thermoplastic polyurethanes. It exhibits excellent toughness, abrasive resistance, and solvent resistance. The product can be injection molded.

General Information			
Features	Ultra high toughness		
	Solvent resistance		
	Updatable resources		
	Good wear resistance		
	Biocompatibility		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	94		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (H-22 Wheel)	57.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	13.0	MPa	ASTM D412
100% strain	15.0	MPa	ASTM D412
300% strain	28.0	MPa	ASTM D412
Tensile Strength (Yield)	38.0	MPa	ASTM D412
Tensile Elongation (Break)	460	%	ASTM D412
Tear Strength <sup>1</sup>	198	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	33	%	ASTM D395B
Additional Information	Nominal Value		
Biobased Content	31.0		
Injection	Nominal Value	Unit	
Rear Temperature	200	°C	
Middle Temperature	205	°C	
Front Temperature	205	°C	
Nozzle Temperature	200	°C	
Injection instructions			

Cooling Time: 30-40 sec

NOTE

1. C mould

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Recommended distributors for this material

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