

# ISOTHANE® G1085AU-L

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE G1085AU-L is an 82 Shore A, high performance Polyester-based and environment-friendly TPU based on renewable materials with bio-based content 25%. This renewable resin also features the property- Hot melt film grade / Good UV Stability

Characteristics:

ISOTHANE G1085AU-L product is polyester poly(adipate)ester based thermoplastic polyurethanes. They exhibit excellent transparency, toughness, and solvent resistance. These products can be extruded.

General Information			
Features	Biocompatible		
	Good Toughness		
	Good UV Resistance		
	Renewable Resource Content		
	Solvent Resistant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	82		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	7.40	MPa	
300% Strain	11.4	MPa	
Tensile Strength (Yield)	14.5	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength <sup>1</sup>	103	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	117	°C	ASTM D3418
Additional Information	Nominal Value		
Biobased Content	25.0		
Extruder Screw L/D Ratio	25.0:1.0		
Extruder Screw Compression Ratio	3.0:1.0		
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 2 Temp.	185	°C	
Cylinder Zone 3 Temp.	185	°C	
Cylinder Zone 4 Temp.	185	°C	
Die Temperature	180	°C	

## NOTE

1. Die C

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### Recommended distributors for this material

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