

ISOTHANE® G1085A-E

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE G1085A-E is an 80 Shore A, high performance Polyester-based and environment-friendly TPU based on renewable materials with bio-based content 28%. This renewable resin also features the property- HIGH TRANSPARENCY.

Characteristics:

ISOTHANE G1085A-E product is polyester poly(adipate)ester based thermoplastic polyurethanes. It exhibits excellent transparency, toughness, abrasive resistance, and solvent resistance. The product can be blow molded.

General Information			
Features	Solvent resistance		
	Updatable resources		
	Good wear resistance		
	Good toughness		
	Biocompatibility		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/8.7 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	4.20	MPa	ASTM D412
100% strain	6.30	MPa	ASTM D412
300% strain	11.6	MPa	ASTM D412
Tensile Strength (Yield)	25.0	MPa	ASTM D412
Tensile Elongation (Break)	610	%	ASTM D412
Tear Strength ¹	140	kN/m	ASTM D624
Additional Information	Nominal Value		
Biobased Content	28.0		
Injection	Nominal Value		
Screw L/D Ratio	25.0:1.0		
Screw Compression Ratio	3.0:1.0		
Injection instructions			
Feed Section: 180 °CTransition Section: 185 °CMetering Section 1: 185 °CMetering Section 2: 185 °CDie: 180 °C			
NOTE			

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Recommended distributors for this material

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