

ISOTHANE® G1680A-E

Thermoplastic Polyurethane Elastomer (Polyether)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE G1680A-E products is polyether based thermoplastic polyurethanes with good balanced qualities. It exhibits high moisture vapor transmission and environment-friendly TPU based on renewable materials with bio-based content 28%. The product can be injected, extruded and blown.

General Information			
Features	High Moisture Vapor Transmission		
	Environmental protection		
	Updatable resources		
	Biocompatibility		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Ross Flex ¹ (-6°C)	No Break		ASTM D1052
Biobased Content	28.0		
Films	Nominal Value	Unit	Test Method
Water Vapor Transmission ²	9000	g/m²/24 hr	ASTM E96
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	8.00	MPa	ASTM D412
Tensile Strength (Yield)	18.0	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Tear Strength ³	100	kN/m	ASTM D624
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			
1.	150000 times		
2.	Procedure BW		
3.	C mould		

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