

ISOTHANE® 1180A

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1100series products are polyester poly(adipate)ester based thermoplastic polyurethanes. They exhibit good toughness, solvent resistance, easy processing, and high transparency. These products can be injection molded, and extruded.

Suggested Applications

Seals, Gaskets, Sheets, Tube, Cable, Shoe Sole, Sporting Equipments and Mechanical Goods.

General Information			
Features	General Purpose		
	Good Processability		
	Good Toughness		
	Solvent Resistant		
Uses	Cable Jacketing		
	Footwear		
	Gaskets		
	General Purpose		
	Machine/Mechanical Parts		
	Seals		
	Sheet		
	Sporting Goods		
	Tubing		
Appearance	Clear/Transparent		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (H-22 Wheel)	30.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	2.90	MPa	
100% Strain	4.80	MPa	
300% Strain	8.10	MPa	
Tensile Strength (Yield)	28.0	MPa	ASTM D412

Tensile Elongation (Break)	650	%	ASTM D412
Tear Strength ¹	90.0	kN/m	ASTM D624
NOTE			
1.	Die C		

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