

ISOTHANE® 1090A

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1090A product is polyester poly(adipate)ester based thermoplastic polyurethanes. It exhibits excellent toughness, abrasive resistance, and solvent resistance. The product can be injection molded.

Suggested Applications:

Seals, Gaskets, Shoe Sole, Sporting Equipments and Mechanical Goods.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Solvent Resistant		
Uses	Footwear		
	Gaskets		
	Seals		
	Sporting Goods		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (H-22 Wheel)	10.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	7.60	MPa	
100% Strain	9.70	MPa	
300% Strain	23.0	MPa	
Tensile Strength (Yield)	39.0	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength ¹	95.0	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	25	%	
70°C, 22 hr	30	%	
NOTE			
1.	Die C		

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Recommended distributors for this material

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