

# ISOTHANE® 2090A

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 2000 series products are polyester poly(adipate)ester based thermoplastic polyurethane. They exhibit excellent toughness, abrasive resistance, solvent resistance, and hydrolysis stability. These products can be injection molded, blow molded, and extruded.

Suggested Applications:

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

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Hydrolysis Resistant		
	Solvent Resistant		
Uses	Cable Jacketing		
	Film		
	Footwear		
	Gaskets		
	Machine/Mechanical Parts		
	Seals		
	Sheet		
	Sporting Goods		
	Tubing		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	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	6.90	MPa	
100% Strain	9.70	MPa	
300% Strain	23.0	MPa	
Tensile Strength (Yield)	40.0	MPa	ASTM D412

Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength <sup>1</sup>	90.0	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	20	%	
70°C, 22 hr	25	%	

#### NOTE

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#### Recommended distributors for this material

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