

# ISOTHANE® 1090AE

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

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

General Information	
Features	Good Abrasion Resistance
	Good Toughness
	High Clarity
	Solvent Resistant
Appearance	Clear/Transparent
Processing Method	Blow Molding
	Extrusion

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)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (H-22 Wheel)	60.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	10.7	MPa	
100% Strain	12.2	MPa	
300% Strain	20.1	MPa	
Tensile Strength (Yield)	30.0	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength <sup>1</sup>	153	kN/m	ASTM D624
NOTE			
1.	Die C		

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