

ISOTHANE® 1055DE

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1000 E series products are polyester poly(adipate)ester based thermoplastic polyurethanes with good balanced qualities. They exhibit good toughness, abrasive resistance, solvent resistance, and transparency. These products can be injection molded, blow molded, and extruded.

Suggested Applications:

Sheets, Film, Tube, Shoe Sole, and Shoe Upper.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	High Clarity		
	Solvent Resistant		
Uses	Film		
	Footwear		
	Sheet		
	Tubing		
Appearance	Clear/Transparent		
Processing Method	Blow Molding		
	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 D)	53		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	9.00	MPa	
100% Strain	12.0	MPa	
300% Strain	24.0	MPa	
Tensile Strength (Yield)	41.0	MPa	ASTM D412
Tensile Elongation (Break)	480	%	ASTM D412
Tear Strength ¹	110	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	25	%	

70°C, 22 hr	35	%
NOTE		

1. Die C

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