

# ISOTHANE® 1055D

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1055D product is polyester poly(adipate)ester based thermoplastic polyurethanes. It exhibits excellent toughness, abrasive resistance, and solvent resistance. The product can be injection molded, blow molded, and extruded.

Suggested Applications:

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

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Solvent Resistant		
Uses	Cable Jacketing		
	Film		
	Footwear		
	Gaskets		
	Seals		
	Sheet		
	Sporting Goods		
	Tubing		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		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	15.0	MPa	
100% Strain	19.0	MPa	
300% Strain	33.0	MPa	
Tensile Strength (Yield)	43.0	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Tear Strength <sup>1</sup>	120	kN/m	ASTM D624

Compression Set		ASTM D395B
23°C, 22 hr	25	%
70°C, 22 hr	30	%
NOTE		

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