

ISOTHANE® 3090A

Thermoplastic Polyurethane Elastomer (Polyether)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 3090A product is a 90A, polyether based thermoplastic Polyurethanes. It exhibits excellent hydrolytic resistance, fungus resistance and low temperature performance properties. It 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	Fungus Resistant		
	Good Thermal Stability		
	Hydrolysis 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	1.14	g/cm ³	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)	15.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	6.20	MPa	
100% Strain	10.0	MPa	
300% Strain	21.0	MPa	
Tensile Strength (Yield)	39.0	MPa	ASTM D412
Tensile Elongation (Break)	480	%	ASTM D412

Tear Strength ¹	130	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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