

ISOTHANE® 5075A

Thermoplastic Polyurethane Elastomer (Polyether)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 5000 series products are polyether based thermoplastic polyurethanes. They exhibit excellent bio-compatibility, hydrolytic resistance, fungus resistance, and low temperature performance properties. These products can be injection molded, blow molded, and extruded. These are used for biomedical and drug administration applications.

Suggested Applications:

Wound Dressing, Trans-dermal Patches, IV Bags, Catheter Parts, Medical Tubing, and Surgical Gowns.

General Information			
Features	Biocompatible		
	Fungus Resistant		
	Good Thermal Stability		
	Hydrolysis Resistant		
	Low Temperature Resistant		
Uses	Bags		
	Medical/Healthcare Applications		
	Textile Applications		
	Tubing		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (H-22 Wheel)	5.00	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	2.30	MPa	
100% Strain	3.20	MPa	
300% Strain	5.90	MPa	
Tensile Strength (Yield)	31.0	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Tear Strength ¹	400	kN/m	ASTM D624
Compression Set			ASTM D395B

23°C, 22 hr	25	%
70°C, 22 hr	35	%
NOTE		
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