

ISOTHANE® 1070A-S

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1070A-S product is polyester based thermoplastic polyurethane. It exhibits excellent hydrolytic resistance, UV resistance, easy flow, good antistatic and low temperature performance properties. This product can be injection molded, blow molded, and extruded.

Suggested Applications:

Sheet & film, Cable & wire, Boots, Hoops, Tubes, Hose.

Appearance:

Transparent spherical pellets.

General Information	
Features	Antistatic property
	Good UV resistance
	Good liquidity
	Low temperature resistance
	Hydrolysis stability
Uses	Films
	Wire and cable applications
	Pipe
	Pipe fittings
	Sheet
	Footwear
Forms	Particle
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 A)	70		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	6.30	MPa	ASTM D412
Tensile Strength (Yield)	25.0	MPa	ASTM D412
Tensile Elongation (Break)	800	%	ASTM D412
Tear Strength ¹	96.0	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+8 - 1.0E+9	ohms	ASTM D257
Injection	Nominal Value	Unit	

Drying Temperature	100	°C
Drying Time	3.0 - 4.0	hr
Screw L/D Ratio	25.0:1.0	
Screw Compression Ratio	3.0:1.0	

Injection instructions

Feed Section: 170°C Transition Section: 175°C Metering Section 1: 180°C Metering Section 2: 175°C Die: 170°C

NOTE

1. C mould

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