

ISOTHANE® 3090AF

Thermoplastic Polyurethane Elastomer (Polyether)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 3000F Series products are polyether based thermoplastic polyurethanes.They exhibit excellent hydrolytic resistance, fungus resistance, and low temperature performance properties. These products can be injection molded, blow molded, and extruded. They are in compliance with FDA CFR 177.105, 177.1680, and 177.2600

Suggested Applications
Sheets, Film, Tube, and Conveyor Belts.

General Information			
Features	Fungus Resistant		
	Good Thermal Stability		
	Hydrolysis Resistant		
Uses	Belts/Belt Repair		
	Conveyor Parts		
	Film		
	Sheet		
	Tubing		
Agency Ratings	FDA 21 CFR 177.1680		
	FDA 21 CFR 177.2600		
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)	50.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	6.20	MPa	
100% Strain	8.30	MPa	
300% Strain	17.0	MPa	
Tensile Strength (Yield)	41.0	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412

Tear Strength ¹	700	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	25	%	
70°C, 22 hr	40	%	
NOTE			
1.	Die C		

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