

# ISOTHANE® 1085AF

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1000 F series products are polyester poly(adipate)ester based thermoplastic polyurethanes. They exhibit excellent toughness, abrasive resistance and solvent resistance. These products can be injection molded, blow molded, and extruded. They are in compliance with FDA CFR 177.105, 177.1680, and 177.2600 requirements.

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

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Solvent 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	1.18	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (H-22 Wheel)	20.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	4.10	MPa	
100% Strain	6.20	MPa	
300% Strain	13.0	MPa	
Tensile Strength (Yield)	36.0	MPa	ASTM D412
Tensile Elongation (Break)	580	%	ASTM D412

Tear Strength <sup>1</sup>	80.0	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	25	%	
70°C, 22 hr	75	%	
NOTE			
1.	Die C		

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