

ISOTHANE® 1080A

Thermoplastic Polyurethane Elastomer (Polyester)

Great Eastern Resins Industrial Co Ltd (GRECO)

Message:

ISOTHANE 1080A products is poly(adipate)ester based thermoplastic polyurethanes with good balanced qualities. It exhibits good toughness, abrasive resistance, solvent resistance, and transparency. The product can be injection molded, blow molded, and extruded.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
	Solvent Resistant		
Appearance	Clear/Transparent		
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)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (H-22 Wheel)	10.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	3.70	MPa	
100% Strain	5.20	MPa	
300% Strain	11.0	MPa	
Tensile Strength (Yield)	34.0	MPa	ASTM D412
Tensile Elongation (Break)	580	%	ASTM D412
Tear Strength ¹	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

