

Mirathane™ E90

Thermoplastic Polyurethane Elastomer (Polyester)

Miracll Chemicals Co., Ltd.

Message:

Mirathane™ E90 is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) product. It is available in Asia Pacific.

Characteristics include:

Chemical Resistant

Wear Resistant

General Information			
Features	Good Abrasion Resistance		
	Hydrolysis Resistant		
	Low Compression Set		
	Oil Resistant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	92		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	35.0	mm ³	DIN 53516
Service Temperature	-20 to 90	°C	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	10.0	MPa	
300% Strain	24.0	MPa	
Tensile Strength (Yield)	38.0	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Tear Strength	110	kN/m	ASTM D624
Compression Set			ASTM D395
70°C, 22 hr	30	%	
100°C, 24 hr	40	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	-36.0	°C	DSC
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0 to 4.0	hr	
Cylinder Zone 1 Temp.	205	°C	
Cylinder Zone 2 Temp.	200	°C	
Cylinder Zone 3 Temp.	195	°C	
Die Temperature	210	°C	

NOTE

1. 10°C/min

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Recommended distributors for this material

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

