

Mirathane™ E180

Thermoplastic Polyurethane Elastomer (Polyester)

Miracll Chemicals Co., Ltd.

Message:

Mirathane™ E180 is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) product. It is available in Asia Pacific. Applications of Mirathane™ E180 include coating applications, engineering/industrial parts, hose/tubing, additive/masterbatch and automotive.

Characteristics include:

- Chemical Resistant
- Good Flexibility
- Puncture Resistant
- Wear Resistant

General Information	
Features	Good Abrasion Resistance
	Kink Resistant
	Low Temperature Flexibility
	Oil Resistant
	Puncture Resistant
	Solvent Resistant
Uses	Automotive Applications
	Belts/Belt Repair
	Coating Applications
	Compounding
	Fabric Coatings
	Film
	Footwear
	Hose
	Overmolding
	Seals
	Sheet
	Tubing
	Wheels
	Wire & Cable Applications

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)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	30.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress			ASTM D412
100% Strain	3.00 to 5.00	MPa	
300% Strain	9.00 to 12.0	MPa	
Tensile Strength (Yield)	28.0 to 30.0	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength	90.0	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 72 hr	25	%	
70°C, 22 hr	48	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	-40.0	°C	ASTM D3417
NOTE			
1.	10°C/min		

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