

Mirathane™ E190

Thermoplastic Polyurethane Elastomer (Polyester)

Miracll Chemicals Co., Ltd.

Message:

Mirathane™ E190 is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) product. It is available in Asia Pacific. Applications of Mirathane™ E190 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 Compression Set		
	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)	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	9.00 to 10.0	MPa	
300% Strain	18.0 to 24.0	MPa	
Tensile Strength (Yield)	34.0 to 40.0	MPa	ASTM D412
Tensile Elongation (Break)	420 to 450	%	ASTM D412
Tear Strength	110 to 140	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 72 hr	25	%	
70°C, 22 hr	35 to 45	%	
100°C, 24 hr	45	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹			
--	-34.0	°C	ASTM D3417
--	-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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