Mirakutoran® TPU E480

Thermoplastic Polyurethane Elastomer Alloy

Japan Mirakutoran Inc.

Tensile Stress ¹ (100% strain, 23°C,

Tensile Strength ² (Yield, 23°C, 2.00 mm)

5.00

44.0

2.00mm)

Message:

Our TPU "Mirakutoran ®" has the following outstanding features.
Has excellent wear resistance
Tensile strength, high mechanical strength and tear strength
Is a wide range of hardness
High impact strength
Oil resistance and good chemical resistance
Excellent low temperature properties, weather resistance, ozone resistance and is also good
Flexible rubber elastic, vibration-effective silencing
Compared to other urethane elastomer thermoplastic that is more
Playback can be processed
Vulcanization process without curing reaction, very high productivity
Resins and other polymer is easy
Solution is easily dissolved in solvent process
Mirakutoran to the standard type E and P are two types.
Type E has a certain cross-linked structure in the molecule, and excellent mechanical strength and compression set. P type is characterized by good
liquidity linear structure

General Information				
Features	Shock absorption Impact resistance, good			
	Good strength			
	Good flexibility			
	Good tear strength			
	Ozone resistance			
	Low temperature resistance			
	Good chemical resistance			
	Good wear resistance			
	Good weather resistance			
	Oil resistance			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.20	g/cm³	ASTM D792	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A, 23°C,				
2.00mm, injection molding)	78 - 82		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Taber Abrasion Resistance (23°C, 1000				
Cycles, 1000 g, H-22 Wheel)	30.0	mg	ASTM D1044	
Elastomers	Nominal Value	Unit	Test Method	

MPa

MPa

ASTM D412

ASTM D412

Tensile Elongation ³ (Break, 23°C, 2.00 mm)	580	%	ASTM D412
Tear Strength ⁴ (23°C, 2.00 mm)	98.0	kN/m	ASTM D624
Compression Set (70°C, 22 hr)	32	%	ASTM D395
Rebound Resilience (23°C, 2.00 mm)	60	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-45.0	°C	DSC
Vicat Softening Temperature	100	°C	ASTM D1525 ⁵
Additional Information			
Test Methods: JIS K7311, K6262, K7206			
NOTE			
1.	300 mm/min		
2.	300 mm/min		
3.	300 mm/min		
4.	300 mm/min		
5.	压力1 (10N)		

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