

# Utomer UT81P90A

Thermoplastic Polyurethane Elastomer (Polyether)

Shanghai Utomer Material Science Co., Ltd.

Message:

Utomer Polyether type TPU which can be applied to Injection, Extrusion and Calendering.  
Molding cycle is short and efficient for Injection production. The stability melt is easy for Extrusion production. Hydrolysis resistance, low temperature performance with a wide processing window.  
Extrusion Blown, Flat Die Cast Film, Injection Tag Wheel and Cable Jacketing

General Information	
Features	Fast Molding Cycle
	High Melt Stability
	Hydrolysis Resistant
Uses	Blown Film
	Cable Jacketing
	Cast Film
Processing Method	Blown Film
	Calendering
	Cast Film
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88 to 92		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	30.0	mm <sup>3</sup>	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	10.0	MPa	
300% Strain	25.0	MPa	
Tensile Strength	32.0	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Tear Strength	0.110	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 70 hr	28	%	
70°C, 24 hr	35	%	
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature	-40.0	°C	ASTM D3418
Melting Temperature	190 to 200	°C	

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#### Recommended distributors for this material

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