

# Utomer UT590

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	40.0	mm <sup>3</sup>	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	15.0	MPa	
300% Strain	18.0	MPa	
Tensile Strength	30.0	MPa	ASTM D412
Tensile Elongation (Break)	380	%	ASTM D412
Tear Strength	0.150	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 70 hr	26	%	
70°C, 24 hr	32	%	
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature	-12.0	°C	ASTM D3418
Melting Temperature	185 to 200	°C	

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#### Recommended distributors for this material

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