

Utomer UT1CP80A

Thermoplastic Polyurethane Elastomer (Polyester)

Shanghai Utomer Material Science Co., Ltd.

Message:

TYPE: Utomer UT1CP80A TPU is a 90A Polyether-type thermoplastic polyurethane (TPU) compound

Features: Excellent clarity and UV stable with good melt strength.

Uses: Injection for 3 c electronic products or shoe part.

General Information			
Features	Good Melt Strength		
	Good UV Resistance		
	High Clarity		
Uses	Electrical/Electronic Applications		
	Footwear		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	< 35.0	mm ³	DIN 53516
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	> 5.00	MPa	
300% Strain	> 9.00	MPa	
Tensile Strength	> 28.0	MPa	ASTM D412
Tensile Elongation (Break)	> 600	%	ASTM D412
Tear Strength	> 0.0900	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 70 hr	< 38	%	
70°C, 24 hr	< 45	%	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-25.0	°C	ASTM D3418
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0	hr	
Rear Temperature	180	°C	
Middle Temperature	185	°C	
Front Temperature	190	°C	

Nozzle Temperature	195	°C
Mold Temperature	50.0	°C

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