

Utomer UT1CP65D

Thermoplastic Polyurethane Elastomer (Polyester)

Shanghai Utomer Material Science Co., Ltd.

Message:

TYPE: Utomer UT1CP65D TPU is a 65D Polyether-type thermoplastic polyurethane (TPU) compound

Features: High tensile abrasion resistance and fast cycling properties

Uses: Injection for 3 c electronic products, ear tags and footwear cleats

General Information			
Features	Fast Molding Cycle		
	Good Abrasion Resistance		
Uses	Electrical/Electronic Applications		
	Footwear		
	Molded Ear Tags		
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	> 18.0	MPa	
300% Strain	> 25.0	MPa	
Tensile Strength	> 42.0	MPa	ASTM D412
Tensile Elongation (Break)	> 300	%	ASTM D412
Tear Strength	> 0.170	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	-15.0	°C	ASTM D3418
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0	hr	
Rear Temperature	200	°C	
Middle Temperature	205	°C	
Front Temperature	210	°C	

Nozzle Temperature	215	°C
Mold Temperature	50.0	°C

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