

**Intelligent Wearable Device  
Material Solution** (TPU)





## Application Advantages

### TPU

1. Very soft, with good tenacity ;
2. Easy Injection Molding Processing, Convenient Production ;
3. High wear resistance: passed over 50000 wear resistance test, Effective avoidance of wear and tear in harsh environment ;
4. Good resilience and high tensile strength.

## Properties Datasheet

					Model
<b>General characteristics</b>	Material properties	Testing standard	Test condition	Units	1175F-RS
	Material category	-	-	-	TPU Polyether
	Appearance (light/Semi-matte/Frosted)	-	-	-	-
	Extrusion/Injection	-	-	-	Injection
<b>Physical characteristics</b>	Hardness	DIN 53505	155	Shore A	75
	Proportion	DIN 53479	-	g/cm <sup>3</sup>	1.03
	Melt index	DIN 53735	230°C/5kg	g/10min	3
	Brittle temperature	ISO 812	-	°C	-60
<b>Mechanical properties</b>	Elongation	DIN 53504	200mm/min	%	650
	Tensile Strength	DIN 53504	200mm/min	Mpa	20
	Tearing strength	DIN 53515	500mm/min	KN/m	50
<b>Electrical performance</b>	Volume resistivity	ASTM D257	-	Ohm-cm	≥1.0E+11
<b>Feature</b>					Super soft TPU injection products



ATP Polymer

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