

Medical Supplies Material Solution (TPU/TPE)





Application Advantages

T P U

1. Excellent hydrolysis resistance and non-hemolysis
2. Plasticizer free
3. Beautiful appearance, and better transparency than other alternative PVC materials
4. Better strength and flexibility than PVC, which can be used to make thin-walled pipes with high burst strength resistance and fluid storage bags
5. Excellent twist resistance, good elasticity and flexibility
6. Low adsorb-ability for drugs, easy to adhere
7. Environmentally friendly, non-toxic, passed the ISO 10993 bio-compatibility test

T P E

1. Conforming to ISO 10993 bio-compatibility test;
2. Excellent aging resistance, high tear resistance, good resilience, not easy to deform;
3. Weak acid and alkali resistance, high and low temperature resistance, can be used at -50°C-120°C, excellent insulation, high permeability, cracking resistance;
4. Environmentally friendly, non-toxic, passed the ISO 10993 bio-compatibility test.
5. Comfortable Touch

Properties Datasheet

					Model	Model
General characteristics	Material properties	Testing standard	Test condition	Units	1185F	5070E
	Material category	-	-	-	TPU Polyether	SBC
	Appearance (light/Semi-matte/Frosted)	-	-	-	Light	Frosted
	Extrusion/Injection	-	-	-	Extrusion/Injection	Extrusion/Injection
Physical characteristics	Hardness	DIN 53505	155	Shore A	85	70
	Proportion	DIN 53479	-	g/cm ³	1.1	0.96
	Melt index	DIN 53735	230°C/5kg	g/10min	2	0.1
	Brittle temperature	ISO 812	-	°C	-60	-50
Mechanical properties	Elongation	DIN 53504	200mm/min	%	550	400
	Tensile Strength	DIN 53504	200mm/min	Mpa	40	9
	Tearing strength	DIN 53515	500mm/min	KN/m	90	35
Electrical performance	Volume resistivity	ASTM D257	-	Ohm-cm	≥1.0E+11	≥1.0E+15
Feature					Meets ISO 10993 biological compatibility	Meets ISO 10993 biological compatibility



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