

**In-car Sensor Cable Harness / ABS brake Cable
Jacket Material Solution**





Application Advantages

TPU

- Support cable passing through ISO6722 flame retardant test, resolved nonstandard problem of current market non-flame retardant products ;
- Variety of appearances extrusion allowed: bright surface, fog surface and grinding surface ;
- By cooperating with the injection grade TPU with molding ability and excellent sealing characteristics, entire product solution could be formed fast.

Properties Datasheet

					Model	Model	Model	Model
General characteristics	Material properties	Testing standard	Test condition	Units	1185D-EH	1190B-RS	1175B-RS	1175F-RS
	Material category	-	-	-	TPU Polyether	TPU Polyether	TPU Polyether	TPU Polyether
	Appearance (light/Semi-matte/Frosted)	-	-	-	Glossy	-	-	-
	Extrusion/injection	-	-	-	Extrusion	Injection	Injection	Injection
Physical characteristics	Hardness	DIN 53505	155	Shore A	85	91	76	75
	Proportion	DIN 53479	-	g/cm ³	1.13	1.23	1.19	1.03
	Melt index	DIN 53735	230°C/5kg	g/10min	5	10	20	3
	Brittle temperature	ISO 812	-	°C	-60	-60	-60	-60
Mechanical properties	Elongation	DIN 53504	200mm/min	%	500	500	600	650
	Tensile Strength	DIN 53504	200mm/min	Mpa	28	20	18	20
	Tearing strength	DIN 53515	500mm/min	KN/m	70	60	55	50
Hot air aging	Elongation retention rate	DIN 53504	158°C/168h	%	≥75 (113°C)			
	Tensile strength retention	DIN 53504	158°C/168h	%	≥75 (113°C)			
Electrical performance	Volume resistivity	ASTM D257	-	Ohm-cm	≥1.0E+11	≥1.0E+11	≥1.0E+11	≥1.0E+11
Combustion performance	Vertical burning test	UL 94	3.0/6.0mm	-	V2(1.5mm)	V0(1.5mm)	V0(1.5mm)	V0(1.5mm)
Feature					Automotive ABS/EPB wire harness bright surface TPU products, flame retardant in accordance with ISO 6722	Easy to process and flame retardant TPU injection molding	Super soft flame retardant TPU injection products	Super soft TPU injection products



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