

Telcar® TL-1934E

Styrenic Thermoplastic Elastomer

Teknor Apex Company

Message:

Telcar®TL-1934E is a styrene thermoplastic elastomer (TES) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding. Telcar®The main characteristics of the TL-1934E are: flame retardant/rated flame.

Telcar®The typical application fields of TL-1934E are: wire and cable

General Information			
UL YellowCard	E54709-100090433	E142591-100745043	
Uses	Cable sheath		
	Electrical conductor insulation material		
	Wire and cable applications		
	Wire sheath		
	Flexible cord insulation material		
Agency Ratings	UL 1581		
UL File Number	QMFZ2.E54709		
	QMTT2.E73402		
Appearance	Opacity		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	18	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	83		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 23°C)	10.7	MPa	ASTM D412
Tensile Elongation ² (Break)	630	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
131°C, 3600 hr	-4.0	%	ASTM D573
158°C, 168 hr	-11	%	ASTM D573
Change in Ultimate Elongation in Air			ASTM D573
131°C, 3600 hr	-16	%	ASTM D573
158°C, 168 hr	-15	%	ASTM D573

Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	105	°C	UL 1581
Brittleness Temperature	-59.0	°C	ASTM D746
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	35	kV/mm	ASTM D149
Dielectric Constant	2.40		ASTM D150
Dissipation Factor	4.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.35 to 1.55mm, All Colors)	V-0		UL 94
Oxygen Index	26	%	ASTM D2863
Injection	Nominal Value	Unit	
Rear Temperature	171 - 193	°C	
Middle Temperature	177 - 199	°C	
Front Temperature	182 - 204	°C	
Nozzle Temperature	188 - 210	°C	
Processing (Melt) Temp	188 - 210	°C	
Mold Temperature	25.0 - 65.6	°C	
Injection Pressure	1.38 - 6.89	MPa	
Injection Rate	Moderate-Fast		
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	50 - 100	rpm	
Cushion	3.81 - 25.4	mm	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	166 - 188	°C	
Cylinder Zone 2 Temp.	171 - 193	°C	
Cylinder Zone 3 Temp.	177 - 199	°C	
Cylinder Zone 5 Temp.	182 - 204	°C	
Die Temperature	190 - 210	°C	
Extrusion instructions			
螺杆转速30 - 100 rpm			
NOTE			
1.	510 mm/min		
2.	510 mm/min		

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