

Elexar® EL-1934A

Thermoplastic Elastomer

Teknor Apex Company

Message:

Elexar® EL-1934A is a styrene-ethylene-butylene-styrene block copolymer (SEBS) 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.

Elexar® The main features of the EL-1934A are:

- flame retardant/rated flame
- ROHS certification
- Flame Retardant

Typical application areas include:

- Wire and cable
- Electrical/electronic applications

General Information			
UL YellowCard	E54709-100090428	E142591-100745014	
Features	Flame retardancy		
Uses	Underground cable		
	Cable sheath		
	Electrical wire sheath material		
	Electrical conductor insulation material		
	Wire and cable applications		
	Wire sheath		
	Industrial cable insulation material		
	Connector		
	cord sheath		
	Terminal cable sheath material		
RoHS Compliance	RoHS compliance		
UL File Number	QMFZ2.E54709		
	QMTT2.E73402		
Appearance	Opacity		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	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)	82		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method

Tensile Strength (Break)	11.7	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
131°C, 3600 hr	-13	%	ASTM D573
136°C, 168 hr	2.0	%	ASTM D573
158°C, 168 hr	-5.0	%	ASTM D573
Change in Ultimate Elongation in Air			ASTM D573
131°C, 3600 hr	-15	%	ASTM D573
136°C, 168 hr	-8.0	%	ASTM D573
158°C, 168 hr	-14	%	ASTM D573
Change in Tensile Strength (60°C, 168 hr, in IRM 902 Oil)	-10	%	ASTM D471
Change in Ultimate Elongation (60°C, 168 hr, in IRM 902 Oil)	-2.0	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	105	°C	UL 1581
Brittleness Temperature	< -55.0	°C	ASTM D746
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	39	kV/mm	ASTM D149
Dielectric Constant	2.20		ASTM D150
Dissipation Factor	3.3E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.35 to 1.55mm, All Colors)	V-0		UL 94
Oxygen Index	27	%	ASTM D2863
Injection	Nominal Value	Unit	
Rear Temperature	199 - 216	°C	
Middle Temperature	213 - 221	°C	
Front Temperature	221 - 227	°C	
Nozzle Temperature	221 - 229	°C	
Processing (Melt) Temp	221 - 229	°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	
Injection instructions			
无需干燥.但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.			
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	193 - 210	°C
Cylinder Zone 2 Temp.	199 - 216	°C
Cylinder Zone 3 Temp.	213 - 221	°C
Cylinder Zone 5 Temp.	221 - 227	°C
Die Temperature	221 - 229	°C

Extrusion instructions

螺杆转速30 - 100 rpm

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