

Elexar® EL-1934G

Thermoplastic Elastomer

Teknor Apex Company

Message:

Elexar® EL-1934G 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-1934G are:

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

Typical application areas include:

- Wire and cable
- Electrical/electronic applications

General Information	
UL YellowCard	E54709-101371120
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
Appearance	Opacity
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	58		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	6.89	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Aging	Nominal Value	Unit	Test Method

Change in Tensile Strength in Air (136°C, 168 hr)	3.0	%	ASTM D573
Change in Ultimate Elongation in Air (136°C, 168 hr)	-4.0	%	ASTM D573
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	105	°C	UL 1581
Brittleness Temperature	< -60.0	°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	34	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.60		ASTM D150
Dissipation Factor	5.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.20 mm, All Colors)	V-0		UL 94
Oxygen Index	31	%	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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