

Elexar® EL-1934E

Thermoplastic Elastomer

Teknor Apex Company

Message:

Elexar® EL-1934E is a thermoplastic elastomer (TPE) 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-1934E are:

flame retardant/rated flame

ROHS certification

Flame Retardant

high hardness

Good UV resistance

Typical application areas include:

Wire and cable

Electrical/electronic applications

General Information		
UL YellowCard	E54709-100090434	E142591-100745017
Features	High specific gravity	
	High density	
	smoothness	
	Good UV resistance	
	Good flexibility	
	Good coloring	
	Low liquidity	
	Halogenated	
	Sunlight resistance, 720 hours	
	General	
	brominated	
	High hardness	
	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/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium)	< 1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	79		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	10.0	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	No Break		ASTM D256
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
131°C, 3600 hr	6.0	%	ASTM D573
136°C, 168 hr	-2.0	%	ASTM D573
158°C, 168 hr	-2.0	%	ASTM D573
Change in Ultimate Elongation in Air			ASTM D573
131°C, 3600 hr	-11	%	ASTM D573
136°C, 168 hr	-7.0	%	ASTM D573
158°C, 168 hr	-8.0	%	ASTM D573
Change in Tensile Strength (60°C, 168 hr, in IRM 902 Oil)	-12	%	ASTM D471
Change in Ultimate Elongation (60°C, 168 hr, in IRM 902 Oil)	-10	%	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	36	kV/mm	ASTM D149
Dielectric Constant	2.41		ASTM D150
Dissipation Factor	3.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.35 to 1.55mm, All Colors)	V-0		UL 94
Oxygen Index	30	%	ASTM D2863

Additional Information

UL-1581: Meets 720 hr sunlight resistance.This material is not recommended for direct contact with fPVC.No adverse effects are expected when in contact with XLPE and PUR

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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