

Elexar® EL-1934F

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Oxygen Index

Elexar EL-1934F is a high performance UL V-0 flame retardant thermoplastic elastomer designed for electrical applications requiring flexibility over a wide temperature range. Elexar EL-1934F is a medium hardness, high density grade that is UV stabilized and RoHS compliant. This UL listed grade is easily colorable and is suitable for both injection molding and extrusion.

General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	BrominatedElectrically InsulatingFilledFlame RetardantGood Colorability	Good FlexibilityHalogenatedHigh DensityHigh FlowHigh Specific Gravity	Medium HardnessSunlight Resistant (720 hours)UV Stabilized
Uses	Cable JacketingConnectors	InsulationWire & Cable Applications	
UL File Number	• QMTT2.E73402		
Appearance	Colors Available	• Opaque	
Forms	• Pellets		
Processing Method	 Extrusion 	 Injection Molding 	

ASTM	& ISO Properties 1		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	31	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1400	psi	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	221	°F	UL 1581
Brittleness Temperature	< -76.0	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (277°F, 168 hr)	5.0	%	ASTM D573
Change in Ultimate Elongation in Air (277°F, 168 hr)	-2.0	%	ASTM D573
Change in Tensile Strength			ASTM D471
140°F, 168 hr, in IRM 902 Oil	-16	%	
Change in Ultimate Elongation			ASTM D471
140°F, 168 hr, in IRM 902 Oil	-4.0	%	八司
Electrical	Nominal Value	Unit 1	Test Method
Dielectric Strength	970	Wmir water	589585ASTM D149
Dielectric Constant (1 kHz)	以	诺尔爱师 021	ASTM D150
Dissipation Factor (1 kHz)	13.0E-3	m联系BW	Test Method ASTM D149 ASTM D150 ASTM D150 Test Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.05 in)	teknorapex. V-0		UL 94

Revision Date: 1/23/2017

ASTM D2863

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Legal Statement

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	Processing Information	
Injection	Nominal Value	Unit
Rear Temperature	390 to 420	°F
Middle Temperature	415 to 430	°F
Front Temperature	430 to 440	°F
Nozzle Temperature	430 to 445	°F
Processing (Melt) Temp	430 to 445	°F
Mold Temperature	77 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in
Injection Notes		
Drying is not necessary. However, if moisture is a prob	olem, dry the pellets for 2 to 4 hours at 150°F (6	5°C).
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	380 to 410	°F
Cylinder Zone 2 Temp.	390 to 420	°F
Cylinder Zone 3 Temp.	415 to 430	°F
Cylinder Zone 5 Temp.	430 to 440	°F
Die Temperature	430 to 445	°F
Extrusion Notes		

Screw Speed: 30 to 100 rpm

Notes

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¹ Typical properties: these are not to be construed as specifications.