Elexar® EL-8730R

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Elexar EL-8730R is a high performance, flame retardant thermoplastic elastomer designed for electrical applications requiring flexibility over a wide termperature range. Elexar EL-8730R is a high durometer grade that is UV stabilized. This grade is UL listed and is suitable for both injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant • General Purpose • Good Colorability • Good Flexibility • Good Weather Resistance	• Halogenated • Heat Aging Resistant • High Elasticity • High Elongation • High Tensile Strength	• Medium Flow • Ozone Resistant • Sunlight Resistant (720 hours) • UV Resistant
Uses	• Appliance Wire Insulation • Appliance Wire Jacketing • Cable Jacketing • Connectors	• Flexible Cord Jacketing • Industrial Cable Insulation • Terminal Cable Jacketing • Underground Power Cable	• Wire & Cable Applications • Wire Jacketing
Agency Ratings	• UL 1581 [1]	• UL 94	
UL File Number	• QMTT2.73402	• QMFZ2.E54709	
Appearance	• Black • Colors Available	• Green • Grey	• Natural Color • Yellow
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [2]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	13	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [3, 4] (100% Strain, 0.0200 in)	660	psi	ASTM D412
Tensile Stress [3, 4] (300% Strain, 0.0200 in)	940	psi	ASTM D412
Tensile Strength [3, 4] (Break, 0.0200 in)	1950	psi	ASTM D412
Tensile Elongation [3, 4] (Break, 0.0200 in)	620	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	86		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)	10	%	ASTM D573
Change in Ultimate Elongation in Air (277°F, 168 hr)	-4.0	%	ASTM D573
Change in Tensile Strength			ASTM D471
140°F, 168 hr, in IRM 902 Oil	-1.0	%	
Change in Ultimate Elongation			ASTM D471
140°F, 168 hr, in IRM 902 Oil	3.0	%	

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Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (122°F)	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	980	V/mil	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	2.36		
1 MHz	2.32		
Dissipation Factor			ASTM D150
1 kHz	1.1E-3		
1 MHz	1.6E-3		

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in, All Colors	V-2		
0.06 in, NT, WT, BK	V-0		
Oxygen Index	25	%	ASTM D2863

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 problem, dry the pellets for 2 to 4 hours at 150°F (65°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 4 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

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Notes

[1] 105°C
720 hr Sunlight Resistance
60°C Oil Resistance

[2] Typical properties: these are not to be construed as specifications.

[3] Die C, 20 in/min

[4] die cut from extruded tapes

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