

Elexar® EL-3954-70

Teknor Apex Company - Thermoplastic Elastomer

Extrusion

Friday, June 30, 2017

General	Information

Processing Method

Elexar EL-3954-70 is a high performance thermoplastic elastomer designed for the electrical market. Elexar EL-3954-70 is a lubricated, medium hardness grade suitable for both injection molding and extrusion.

Seneral			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	FilledHalogen FreeHigh Density	 High Specific Gravity Lubricated Medium Flow	Medium HardnessSlip
lses	ConnectorsGrommets	Strain ReliefsWire & Cable Applications	
Agency Ratings	• UL 94		
RoHS Compliance	 RoHS Compliant 		
Appearance	Colors Available	• Opaque	
Forms	Pellets		

· Injection Molding

AST	ΓM & ISO Properties ¹		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow: 100% Strain	308	psi	
Flow: 100% Strain	392	psi	
Tensile Stress ²			ASTM D412
Across Flow: 300% Strain	453	psi	
Flow: 300% Strain	542	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	1440	psi	
Flow : Break	1200	psi	
Flow: Break ³	1650	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	740	%	
Flow : Break	670	%	
Flow: Break ³	700	%	
Tear Strength ²			ASTM D624
Across Flow	189	Hof/in	八蜡商
Flow	177:	(lbf/in)	N 19 19 19 19 19 19 19 19 19 19 19 19 19
Compression Set ⁴	189 177 177 177 177 177	诺尔爱师 021-	ASTM D395E
73°F, 22 hr	上海从 PEX24	n%表系图W	
158°F, 22 hr	上海松斯里化 TEKNOR APEX24 TEKNOR shshsis7	%	

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	71		
Shore A, 5 sec, Injection Molded	69		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°F	ASTM D746
RTI Elec	194	°F	UL 746
RTI Str	194	°F	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	1100	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in, All Colors)	НВ		UL 94

Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

	Processing Information	
Injection	Nominal Value	Unit
Rear Temperature	370 to 420	°F
Middle Temperature	370 to 420	°F
Front Temperature	370 to 420	°F
Nozzle Temperature	370 to 420	°F
Processing (Melt) Temp	370 to 420	°F
Mold Temperature	60 to 90	°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 pr	oblem, dry the pellets for 2 to 4 hours at 150°F (6	5°C).
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	350 to 400	°F
Cylinder Zone 2 Temp.	350 to 400	°F
Cylinder Zone 3 Temp.	350 to 400	°F
Cylinder Zone 4 Temp.	350 to 400	°F
Cylinder Zone 5 Temp.	350 to 400	°F A A A A A
Die Temperature	350 to 400	°F-共有以及公销商
Extrusion Notes	WIX.	科3
Screw Speed: 30 to 100 rpm	上海松朝建 TEKNOR APEX特 teknorapex.shshsi.co	*F *

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Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Die C, 20 in/min
- ³ Extruded tape
- ⁴ Type 1

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