

Elexar[®] EL-3954-50

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Elexar EL-3954-50 is a high performance thermoplastic elastomer designed for the electrical market. Elexar EL-3954-50 is a lubricated, medium hardness grade suitable for both injection molding and extrusion.

Material Status	 Commercial: Active 		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	FilledHalogen FreeHigh Density	High Specific GravityLubricatedMedium Flow	Medium HardnessSlip
Uses	 Appliance Wire Insulation Appliance Wire Jacketing Cable Jacketing Connectors 	 Flexible Cord Jacketing Industrial Cable Insulation Terminal Cable Jacketing Underground Power Cable 	Wire & Cable ApplicationsWire Jacketing
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available	Natural Color	Opaque
Forms	Pellets		
Processing Method	Extrusion	Injection Molding	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	12	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	147	psi	
Flow : 100% Strain	179	psi	
Tensile Stress ²			ASTM D412
Across Flow : 300% Strain	285	psi	
Flow : 300% Strain	305	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	921	psi	
Flow : Break	712	psi	
Flow : Break ³	1300	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	670	%	
Flow : Break	680	%	1
Flow : Break ³	750	%	
Tear Strength ²		ITE	ASTM D624
Across Flow	118	lbf/ins PV	级分销商
Flow	10 10 19 4 K	Ibf/in	589585
Compression Set ⁴	· SAKAPHI EX #	诸小后:	ASTM D395B
73°F, 22 hr	Lis IOR APE	%	
158°F, 22 hr	118 TEKNOR APEX TEKNOR APEX TEKNOR APEX 12 12 12 12 12 12 12 12 12 12 12 12 12	%	

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 purchasers assume 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 by others. There is no warranty of merchantability and there are no other warranties for the products described.

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Nominal Value Unit	Test Method
	ASTM D2240
46	
44	
Nominal Value Unit	Test Method
< -76.0 °F	ASTM D746
-	46 44 Nominal Value Unit

Legal Statement

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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	
njection Notes			
Drying is not necessary. However, if moisture is a problem	n, dry the pellets for 2 to 4 hours at $150^{\circ}F$ (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	
Die Temperature	350 to 400	°F	
Extrusion Notes			

Screw Speed: 30 to 100 rpm

Notes

Notes	
¹ Typical properties: these are not to be construed as specifications.	
² Die C, 20 in/min	计有限4篇
³ Extruded tape	10 14 14 14 14 14 14 14 14 18 18 18 18 18 18 18 18 18 18 18 18 18
⁴ Type 1	大的第三人称声不是是,021
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Teknor Apex Company Corporate Headquarters

In U.S. for Vinyls, TPEs, Colorants, Engineered Thermoplastics (Chem Polymer) 505 Central Avenue Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000 Fax: 401-725-8095 Toll Free (U.S. only) 800-556-3864

info@teknorapex.com

Teknor Apex U.K. Ltd.

Tat Bank Road Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100 Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk



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