

# Elexar® EL-8623A (PRELIMINARY DATA)

### Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

	General Inf	formation		
Product Description				
	nance thermoplastic elastomer designed to sompliant, flame retardant grade suitab			ver a wide temperature
General				
Material Status	<ul> <li>Preliminary Data</li> </ul>			
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	• Nor	th America
Features	<ul><li>Chemical Resistant</li><li>Filled</li><li>Flame Retardant</li><li>Good Adhesion</li></ul>	<ul><li>Good Colorability</li><li>Good Moldability</li><li>Good Processability</li><li>Good Toughness</li></ul>	• Hig • Hig	ogenated h Density h Hardness v Flow
Uses	<ul><li>Appliance Wire Insulation</li><li>Appliance Wire Jacketing</li><li>Cable Jacketing</li><li>Connectors</li></ul>	<ul> <li>Flexible Cord Jacketing</li> <li>Industrial Cable Insulat</li> <li>Terminal Cable Jacketi</li> <li>Underground Power Cable</li> </ul>	tion • Wir	e & Cable Applications e Jacketing
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>			
Appearance	Colors Available	Opaque		
Forms	Pellets			
Processing Method	• Extrusion	Injection Molding		
	ASTM & ISO	<u> </u>		
Physical		Nominal Value U	nit	Test Method
Specific Gravity		1.15		ASTM D792
Melt Mass-Flow Rate (MFR) (230°	C/2.16 kg)	2.5 g/		ASTM D1238
Elastomers		Nominal Value U		Test Method
Tensile Stress (100% Strain)		1170 ps		ASTM D412
Tensile Stress (300% Strain)		1550 ps		ASTM D412
Tensile Strength (Yield)		3300 ps		ASTM D412
Tensile Elongation (Break)		580 %		ASTM D412
Hardness		Nominal Value U	nit	Test Method
Durometer Hardness				ASTM D2240
Shore D, 1 sec		58		
Shore D, 5 sec		54		
Thermal		Nominal Value U		Test Method
Brittleness Temperature		-45.4 °F		ASTM D746
Aging		Nominal Value U		Test Method
Change in Tensile Strength in Air (	• ,	-19 %		ASTM D573
Change in Ultimate Elongation in A	Air (277°F, 168 hr)	-9.0 %		ASTM D573
Change in Tensile Strength			- ME/IS	ASTM D471
140°F, 168 hr, in IRM 902 Oil		-29 %	· 持加·	間間 \
Change in Ultimate Elongation		·····································	<b>十7</b> 年順斯 - 589	58 ASTM D471
140°F, 168 hr, in IRM 902 Oil		-9.0 % -29 % -29 % -29 % -29 % -29 % -29 % -29 % -20 %	小龙 021	
Electrical		Nominal Value U	hit	Test Method
Volume Resistivity (73°F)		TEKNOR 2:2E+16 of 1000 V/	īms∙cm	ASTM D257
Dielectric Strength		teknorar 1000 V/	mil 'mil	ASTM D149

Revision Date: 6/8/2016

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Electrical	Nominal Value Unit	Test Method
Dielectric Constant		ASTM D150
1 kHz	2.40	
1 MHz	2.40	

#### 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	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

#### **Notes**

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<sup>&</sup>lt;sup>1</sup> Typical properties: these are not to be construed as specifications.