

# Medalist® MD-50153 NAT X (PRELIMINARY DATA)

# Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

### **General Information**

### **Product Description**

Medalist(R) MD-50153 is a clear high performance thermoplastic elastomer intended for use in medical and healthcare applications, particularly for molded goods. Medalist(R) MD-50153 is a low density, higher hardness grade designed to be a sustainable alternative to flexible PVC.

General			
Material Status	Preliminary Data		
Availability	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	<ul><li>Autoclave Sterilizable</li><li>Ethylene Oxide Sterilizable</li><li>Good Flow</li><li>Good Moldability</li></ul>	<ul><li>Good Sterilizability</li><li>Halogen Free</li><li>High Clarity</li><li>Low Density</li></ul>	<ul><li> Medium Hardness</li><li> Radiation Sterilizable</li></ul>
Uses	Medical/Healthcare Application	ns • Pharmaceuticals	<ul> <li>Safety Equipment</li> </ul>
Agency Ratings	<ul> <li>ISO 10993 Part 5</li> </ul>	• ISO 13485	
RoHS Compliance	RoHS Compliant		
Appearance	<ul> <li>Clear/Transparent</li> </ul>	Colors Available	
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties <sup>1</sup>					
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	0.890		ASTM D792		
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Strength - Flow (Break)	1340	psi	ASTM D412		
Tensile Elongation - Flow (Break)	800	%	ASTM D412		
Tear Strength	177	lbf/in	ASTM D624		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shore A, 1 sec	55				
Shore A, 5 sec	53				

### **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.

Nominal Value Unit
260 to 300 下,是顺则 <sub>021-58958</sub> 3.
280 to 320 F
F 1320 to 360 "F
TEKnorape360 to 390 °F
360 to 390 °F
70 to 100 °F
200 to 800 psi

Revision Date: 6/1/2016

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Injection	Nominal Value Unit
Back Pressure	25.0 to 100 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).

#### Notes

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

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