

**Arnitel® Care L263E**
*Envalior - Thermoplastic Copolyester Elastomer*
**General Information**
**Product Description**

Injection Molding, Medical grade, Food Contact Quality

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Food Contact Acceptable
Uses	• Medical/Healthcare Applications
Agency Ratings	• USP Class VI
Processing Method	• Injection Molding
Resin ID	• TPC-ET

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm <sup>3</sup>	ISO 1183
Apparent (Bulk) Density	0.77	g/cm <sup>3</sup>	ISO 60
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	28	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.0	%	
Flow	1.8	%	
Water Absorption (Saturation, 73°F)	0.60	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	43500	psi	ISO 527-1
Tensile Stress			ISO 527-2
Break	5080	psi	
Across Flow : Break	6240	psi	
Tensile Stress			ISO 527-2
5.0% Strain	1740	psi	
10% Strain	2470	psi	
50% Strain	2610	psi	
100% Strain	2610	psi	
300% Strain	2900	psi	
Tensile Strain			ISO 527-2
Break	> 300	%	
Across Flow : Break	740	%	
Nominal Tensile Strain at Break	490	%	ISO 527-2
Flexural Modulus	47900	psi	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>2</sup>			ISO 34-1
Across Flow	931	lbf/in	
Flow	919	lbf/in	
Compression Set (158°F)	43	%	ISO 815
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.7	ft·lb/in <sup>2</sup>	
73°F	No Break		



Charpy Unnotched Impact Strength		ISO 179/1eU
-22°F	No Break	
73°F	No Break	
Notched Izod Impact Strength (73°F)	No Break	ISO 180/1A
Tensile Impact Strength <sup>3</sup> (73°F)	111 ft·lb/in <sup>2</sup>	ISO 8256/1
<b>Hardness</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Shore Hardness (Shore D, 3 sec)	59	ISO 868
<b>Thermal</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	239 °F	ISO 75-2/B
Glass Transition Temperature <sup>4</sup>	-76.0 °F	ISO 11357-2
Vicat Softening Temperature	257 °F	ISO 306/B50
Melting Temperature <sup>4</sup>	414 °F	ISO 11357-3
CLTE - Flow	1.0E-4 in/in/°F	ISO 11359-2
CLTE - Transverse	1.0E-4 in/in/°F	ISO 11359-2
<b>Electrical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+12 ohms·m	IEC 62631-3-1
Electric Strength	560 V/mil	IEC 60243-1
Relative Permittivity		IEC 62631-2-1
100 Hz	3.80	
1 MHz	3.40	
Dissipation Factor		IEC 62631-2-1
100 Hz	0.011	
1 MHz	0.034	
Comparative Tracking Index	600 V	IEC 60112
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Flame Rating (0.06 in)	HB	UL 94
Flammability Classification (0.06 in)	HB	IEC 60695-11-10, -20

#### Notes

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

<sup>2</sup> Method B, Angle

<sup>3</sup> notched

<sup>4</sup> 10°C/min

