

**Arnitel® EB501**
*Envalior - Thermoplastic Copolyester Elastomer*
**General Information**
**Product Description**

Blow Molding Grade

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Processing Method	• Blow Molding
Resin ID	• TPC-ET

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

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/10.0 kg)	7.0	cm <sup>3</sup> /10min	ISO 1133
Water Absorption (24 hr, 73°F)	0.88	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20300	psi	ISO 527-1
Tensile Stress (Break)	3480	psi	ISO 527-2
Tensile Stress			ISO 527-2
5.0% Strain	943	psi	
10% Strain	1600	psi	
50% Strain	2610	psi	
100% Strain	3050	psi	
Tensile Strain (Break)	> 50	%	ISO 527-2
Nominal Tensile Strain at Break	150	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>2</sup>	702	lbf/in	ISO 34-1
Compression Set (158°F)	37	%	ISO 815
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	No Break		ISO 179/1eA
Notched Izod Impact Strength (73°F)	No Break		ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D, 3 sec	51		
Shore D, 15 sec	51		
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature <sup>3</sup>	-108	°F	ISO 11357-2
Vicat Softening Temperature	129	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	390	°F	ISO 11357-3
CLTE - Flow	1.2E-4	in/in/°F	ISO 11359-2
CLTE - Transverse	1.2E-4	in/in/°F	ISO 11359-2

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

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

<sup>3</sup> 10°C/min
