

**Arnitel® PL650**
*Envalior - Thermoplastic Copolyester Elastomer*
**General Information**
**Product Description**

Injection Molding

**General**

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

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

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	26	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage - Across Flow	1.7	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	62400	psi	ISO 527-1
Tensile Stress (Yield)	3630	psi	ISO 527-2
Tensile Stress (Break)	5080	psi	ISO 527-2
Tensile Stress			ISO 527-2
5.0% Strain	2480	psi	
10% Strain	3210	psi	
50% Strain	3320	psi	
100% Strain	3210	psi	
Tensile Strain (Yield)	24	%	ISO 527-2
Nominal Tensile Strain at Break	370	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>2</sup>	857	lbf/in	ISO 34-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.3	ft·lb/in <sup>2</sup>	
73°F	11	ft·lb/in <sup>2</sup>	
Notched Izod Impact Strength			ISO 180/1A
-4°F	2.4	ft·lb/in <sup>2</sup>	
73°F	10	ft·lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	62		ISO 868
Thermal	Nominal Value	Unit	Test Method
Melting Temperature <sup>3</sup>	430	°F	ISO 11357-3
RTI Elec (0.06 in)	122	°F	UL 746B
RTI Imp (0.06 in)	122	°F	UL 746B
RTI Str (0.06 in)	122	°F	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94
Flammability Classification (0.06 in)	HB		IEC 60695-11-10, -20

