

Arnitel® PB420
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	
Automotive Specifications	• STELLANTIS FTM78-0050		
Processing Method	• Blow Molding		
Resin ID	• TPC-ET		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/10.0 kg)	10	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10200	psi	ISO 527-1
Tensile Stress			ISO 527-2
Break	2760	psi	
Across Flow : Break	4060	psi	
Tensile Stress			ISO 527-2
5.0% Strain	537	psi	
Across Flow : 5.0% Strain	537	psi	
10% Strain	899	psi	
Across Flow : 10% Strain	856	psi	
Flow : 10% Strain	798	psi	
Flow : 10% Strain, 212°F	421	psi	
50% Strain	1770	psi	
Across Flow : 50% Strain	1350	psi	
100% Strain	2320	psi	
Across Flow : 100% Strain	1480	psi	
Tensile Strain - Across Flow (Break)	740	%	ISO 527-2
Nominal Tensile Strain at Break	170	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²			ISO 34-1
Across Flow	611	lbf/in	
Flow	605	lbf/in	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	No Break		
73°F	No Break		
Notched Izod Impact Strength			ISO 180/1A
-22°F	No Break		
73°F	No Break		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	38		ISO 868
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	149	°F	ISO 75-2/B



Glass Transition Temperature ³	-76.0 °F	ISO 11357-2
Melting Temperature ³	410 °F	ISO 11357-3

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method B, Angle

³ 10°C/min

