

Arnitel® PB582-H
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Blow Molding Grade, Heat Stabilized

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Automotive Specifications	• STELLANTIS SPA X62 5103
Processing Method	• Blow Molding
Resin ID	• TPC-ET

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/10.0 kg)	2.9	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	43500	psi	ISO 527-1
Tensile Stress			ISO 527-2
Break	4350	psi	
Across Flow : Break	5950	psi	
Tensile Stress			ISO 527-2
5.0% Strain	1890	psi	
Across Flow : 5.0% Strain	1600	psi	
10% Strain	2610	psi	
Across Flow : 10% Strain	2180	psi	
Flow : 10% Strain	2030	psi	
Flow : 10% Strain, 212°F	1030	psi	
50% Strain	3630	psi	
Across Flow : 50% Strain	2540	psi	
100% Strain	4060	psi	
Across Flow : 100% Strain	2470	psi	
Tensile Strain - Across Flow (Break)	610	%	ISO 527-2
Nominal Tensile Strain at Break	150	%	ISO 527-2
Flexural Modulus			ISO 178
--	45000	psi	
248°F	16000	psi	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²			ISO 34-1
Across Flow	748	lbf/in	
Flow	782	lbf/in	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	7.1	ft-lb/in ²	
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
Hardness	Nominal Value	Unit
Shore Hardness (Shore D, 3 sec)	55	ISO 868
Thermal	Nominal Value	Unit
Deflection Temperature Under Load (66 psi, Unannealed)	212	°F
Vicat Softening Temperature	221	°F
Melting Temperature ³	428	°F

Notes

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

² Method B, Angle

³ 10°C/min

