

Arnitel® PL420-H
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Injection Molding, Heat Stabilized

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Automotive Specifications	• FORD WSS-M4D683-A2 Color: Black
Processing Method	• Injection 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/2.16 kg)	23	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.8	%	
Flow	1.6	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10900	psi	ISO 527-1
Tensile Stress (Break)	2180	psi	ISO 527-2
Tensile Stress			ISO 527-2
5.0% Strain	508	psi	
10% Strain	870	psi	
50% Strain	1420	psi	
100% Strain	1600	psi	
Nominal Tensile Strain at Break	280	%	ISO 527-2
Flexural Modulus	11600	psi	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²			ISO 34-1
Across Flow	600	lbf/in	
Flow	554	lbf/in	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	No Break		
73°F	No Break		
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Notched Izod Impact Strength			ISO 180/1A
-22°F	No Break		
-4°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



Melting Temperature ³	428 °F	ISO 11357-3
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	> 1.0E+13 ohms·m	IEC 62631-3-1

Notes

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

² Method B, Angle

³ 10°C/min

