

Arnitel® PL461
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Injection Molding

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	39	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	19600	psi	ISO 527-1
Tensile Stress (Break)	3050	psi	ISO 527-2
Tensile Stress			ISO 527-2
5.0% Strain	870	psi	
10% Strain	1330	psi	
50% Strain	1910	psi	
100% Strain	2090	psi	
Nominal Tensile Strain at Break	350	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	537	lbf/in	ISO 34-1
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)	45		ISO 868
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	149	°F	ISO 75-2/B
Vicat Softening Temperature	372	°F	ISO 306/A50
Melting Temperature ³	428	°F	ISO 11357-3

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

² Method B, Angle

³ 10°C/min
