

Arnitel® EL700
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	1.26	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	28	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.0	%	
Flow	1.8	%	
Water Absorption (Saturation, 73°F)	0.60	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	79800	psi	ISO 527-1
Tensile Stress (Yield)	4350	psi	ISO 527-2
Tensile Stress (Break)	4470	psi	ISO 527-2
Tensile Stress			ISO 527-2
5.0% Strain	2900	psi	
10% Strain	3770	psi	
50% Strain	3340	psi	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	• > 50 • 500	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.6	ft·lb/in ²	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	65		ISO 868
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	126	°F	ISO 75-2/A
Melting Temperature ²	421	°F	ISO 11357-3
CLTE - Flow	9.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	9.7E-5	in/in/°F	ISO 11359-2

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

² 10°C/min
