

Arnitel® EL150/U
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Injection Molding, UV Stabilized

Arnitel EL150/U is a very low modulus grade with nominal hardness of 20D. Material can be processed by many conventional thermoplastics processing techniques such as injection molding. It is important to note that in a certain periods, clumps can be formed due to excessive storage conditions such as packing type, stacking, extreme temperature. Pl. refer injection molding recommendations Food contact use - Not Applicable.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• UV Stabilizer
Features	• Good Weather Resistance • UV Stabilized
Processing Method	• Injection Molding
Resin ID	• TPC-ET

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	77	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.70	%	
Water Absorption (24 hr, 73°F)	1.8	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.12	%	ISO 62
Viscosity Number	3.32	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2030	psi	ISO 527-1
Tensile Stress (Break)	2000	psi	ISO 527-2
Tensile Stress			ISO 527-2
5.0% Strain	116	psi	
10% Strain	203	psi	
50% Strain	450	psi	
100% Strain	551	psi	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	980	%	ISO 527-2
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 3 sec	80		
Shore A, 15 sec	79		
Shore D, 3 sec	19		
Shore D, 15 sec	18		
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ²	-90.4	°F	ASTM D5026/D7028
Melting Temperature ³	329	°F	ISO 11357-3
RTI Elec (0.05 in)	122	°F	UL 746B
RTI Imp (0.05 in)	122	°F	UL 746B

