

Arnitel® EL591
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Injection Molding

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	27	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	39200	psi	ISO 527-1
Tensile Stress (Break)	5220	psi	ISO 527-2
Tensile Stress (10% Strain)	2030	psi	ISO 527-2
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	55		ISO 868
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ²	405	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	0.975	g/cm ³	
Melt Specific Heat	0.454	Btu/lb/°F	

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

² 10°C/min
