

Arnitel® EM400-08
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Food Contact Quality, Injection Molding or Extrusion Grade

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	32	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5800	psi	ISO 527-1
Tensile Stress (Yield)	870	psi	ISO 527-2
Tensile Stress (Break)	2900	psi	ISO 527-2
Tensile Stress			ISO 527-2
10% Strain	435	psi	
100% Strain	957	psi	
Tensile Strain (Yield)	50	%	ISO 527-2
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
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
-4°F	No Break		
73°F	No Break		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	33		ISO 868
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ²	-99.4	°F	ISO 11357-2
Melting Temperature ²	383	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Electric Strength	510	V/mil	IEC 60243-1
Relative Permittivity			IEC 62631-2-1
100 Hz	4.10		
1 MHz	4.00		
Dissipation Factor			IEC 62631-2-1
100 Hz	1.0E-3		



1 MHz	0.017
Comparative Tracking Index	600 V IEC 60112

Notes

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

² 10°C/min

