

Arnitel® EM740-H
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Extrusion Grade, Heat Stabilized

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.0	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 73°F)	0.60	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	138000	psi	ISO 527-1
Tensile Stress			ISO 527-2
Break	3770	psi	
Across Flow : Break	8410	psi	
Tensile Stress			ISO 527-2
5.0% Strain	4930	psi	
10% Strain	5220	psi	
Tensile Strain - Across Flow (Break)	570	%	ISO 527-2
Nominal Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	136000	psi	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²			ISO 34-1
Across Flow	1280	lbf/in	
Flow	1300	lbf/in	
Compression Set (158°F)	55	%	ISO 815
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-22°F)	3.8	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Notched Izod Impact Strength (73°F)	8.6	ft·lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	71		ISO 868
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ³	51.8	°F	ISO 11357-2
Melting Temperature ³	430	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Relative Permittivity (1 MHz)	3.80		IEC 62631-2-1
Comparative Tracking Index	600	V	IEC 60112

