

Arnitel® EM630-H
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Extrusion Grade, Heat Stabilized

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin 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	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	3.7	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 73°F)	0.63	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	37700	psi	ISO 527-1
Tensile Stress			ISO 527-2
Break	3920	psi	
Across Flow : Break	8700	psi	
Tensile Stress			ISO 527-2
5.0% Strain	1740	psi	
10% Strain	2470	psi	
50% Strain	3050	psi	
100% Strain	3050	psi	
Tensile Strain - Across Flow (Break)	700	%	ISO 527-2
Nominal Tensile Strain at Break	220	%	ISO 527-2
Flexural Modulus	44200	psi	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²			ISO 34-1
Across Flow	891	lbf/in	
Flow	959	lbf/in	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.7	ft·lb/in ²	
73°F	No Break		
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Notched Izod Impact Strength (73°F)	No Break		ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	59		ISO 868
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	257	°F	ISO 306/B50
--			



--	392 °F	ISO 306/A50
Melting Temperature ³	414 °F	ISO 11357-3
CLTE - Flow	8.3E-5 in/in/°F	ISO 11359-2
CLTE - Transverse	8.3E-5 in/in/°F	ISO 11359-2
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.2E+11 ohms·m	IEC 62631-3-1
Electric Strength	560 V/mil	IEC 60243-1
Relative Permittivity (1 MHz)	4.10	IEC 62631-2-1
Dissipation Factor (1 MHz)	0.017	IEC 62631-2-1
Comparative Tracking Index	600 V	IEC 60112

Notes

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

² Method B, Angle

³ 10°C/min

