

Arnitel® CM622
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

60 Shore D, Extrusion

Design Challenge

Degradation & Stability | Thermo-oxidative stability

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Automotive Specifications	• GM GMW15702-250033	• STELLANTIS FTM78-0075	
Processing Method	• Extrusion	• Injection Molding	
Resin ID	• TPC-ES		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Apparent (Bulk) Density	0.70	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	9.0	cm ³ /10min	ISO 1133
Water Absorption (24 hr, 73°F)	0.22	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	34100	psi	ISO 527-1
Tensile Stress			ISO 527-2
Break	4930	psi	
Across Flow : Break	5800	psi	
Tensile Stress			ISO 527-2
5.0% Strain	2030	psi	
10% Strain	2760	psi	
50% Strain	3190	psi	
100% Strain	3050	psi	
Across Flow : 100% Strain	2470	psi	
Tensile Strain			ISO 527-2
Break	> 300	%	
Across Flow : Break	640	%	
Nominal Tensile Strain at Break	400	%	ISO 527-2
Flexural Modulus	39200	psi	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²			ISO 34-1
Across Flow	976	lbf/in	
Flow	1090	lbf/in	
Compression Set			ISO 815
73°F	19	%	
158°F	37	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.8	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 (-22°F)	2.9 ft·lb/in ²	ISO 180/1A
Hardness	Nominal Value Unit	Test Method
Shore Hardness		ISO 868
Shore D, 3 sec	61	
Shore D, 15 sec	61	
Thermal	Nominal Value Unit	Test Method
Glass Transition Temperature ³	14.0 °F	ISO 11357-2
Vicat Softening Temperature		
--	194 °F	ISO 306/B50
--	374 °F	ISO 306/A50
Melting Temperature ³	406 °F	ISO 11357-3
Electrical	Nominal Value Unit	Test Method
Electric Strength	600 V/mil	IEC 60243-1
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

