

Arnitel® EB463
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Blow Molding Grade

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/10.0 kg)	11	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.0	%	
Flow	1.5	%	
Water Absorption (Saturation, 73°F)	0.70	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9430	psi	ISO 527-1
Tensile Stress			ISO 527-2
Break	2470	psi	
Across Flow : Break	3340	psi	
Tensile Stress			ISO 527-2
5.0% Strain	537	psi	
Across Flow : 5.0% Strain	537	psi	
10% Strain	885	psi	
Across Flow : 10% Strain	827	psi	
Flow : 10% Strain	769	psi	
Flow : 10% Strain, 212°F	406	psi	
50% Strain	1670	psi	
Across Flow : 50% Strain	1200	psi	
100% Strain	2030	psi	
Across Flow : 100% Strain	1380	psi	
Tensile Strain - Across Flow (Break)	740	%	ISO 527-2
Nominal Tensile Strain at Break	210	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²			ISO 34-1
Across Flow	588	lbf/in	
Flow	502	lbf/in	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	No Break		
73°F	No Break		
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		



Notched Izod Impact Strength		ISO 180/1A
-22°F	No Break	
-4°F	No Break	
73°F	No Break	
Hardness	Nominal Value	Unit
Shore Hardness (Shore D, 3 sec)	38	ISO 868
Thermal	Nominal Value	Unit
Melting Temperature ³	397 °F	ISO 11357-3

Notes

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

² Method B, Angle

³ 10°C/min

