Arnitel® HT8027

Envalior - *Thermoplastic Copolyester Elastomer*

General Information

Product Description			
Heat Resistant Copolyester, Blow Molding Grade			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Heat Resistance		
Processing Method	• Blow Molding	• Extrusion	
Resin ID	• TPC-ES		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.27	g/cm³	ISO 1183
Apparent (Bulk) Density	0.70	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	25	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	39200	psi	ISO 527-1
Tensile Stress			ISO 527-2
Break	3770	psi	
Across Flow : Break	6530	psi	
Tensile Stress			ISO 527-2
5.0% Strain	1890	psi	
Across Flow : 5.0% Strain	2180	psi	
10% Strain	2760	psi	
Across Flow : 10% Strain	2900	psi	
50% Strain	3630	psi	
Across Flow : 50% Strain	3190	psi	
100% Strain	3630	psi	
Across Flow : 100% Strain	2900	psi	
Tensile Strain - Across Flow (Break)	630	%	ISO 527-2
Nominal Tensile Strain at Break	290	%	ISO 527-2
Flexural Modulus			ISO 178
--	44200	psi	
248°F	13800	psi	
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [2]			ISO 34-1
Across Flow	999	lbf/in	
Flow	1160	lbf/in	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	4.1	ft·lb/in²	
73°F	No Break		
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 3 sec)	61		ISO 868

Thermal	Nominal Value	Unit	Test Method
Melting Temperature [3]	403	°F	ISO 11357-3
CLTE - Flow	1.1E-4	in/in/°F	ISO 11359-2
CLTE - Transverse	1.0E-4	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+13	ohms·m	IEC 62631-3-1

Notes

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

[2] Method B, Angle

[3] 10°C/min