Arnitel® EB464

Thermoplastic Copolyester Elastomer

DSM Engineering Plastics

Message:

Arnitel® EB464 is a Thermoplastic Copolyester Elastomer (TPC-ET) material. It is available in Asia Pacific, Europe, or North America for blow molding.

General Information			
Uses	Blow Molding Applications		
Processing Method	Blow Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.15	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/10.0 kg)	8.00	cm³/10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.70	%	
Equilibrium, 23°C, 50% RH	0.30	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore D, 3 sec	39		
Shore D, 15 sec	39		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	67.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break [1]	20.4	MPa	
Break	21.5	MPa	
5.0% Strain	3.40	MPa	
5.0% Strain [2]	4.00	MPa	
10% Strain [3]	5.00	MPa	
10% Strain [4]	6.20	MPa	
10% Strain	6.00	MPa	
10% Strain,-40°C [5]	12.5	MPa	
10% Strain,100°C [6]	1.80	MPa	
50% Strain	11.0	MPa	
50% Strain [7]	8.20	MPa	
100% Strain [8]	10.5	MPa	
100% Strain	13.9	MPa	
Tensile Strain [9] (Break)	530	%	ISO 527-2
Nominal Tensile Strain at Break	300	%	ISO 527-2
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [10]			ISO 34-1

Across Flow	110	kN/m	
Flow	100	kN/m	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-20°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature [11]	213	°C	ISO 11357-3

NOTE	
1.	Die cutting - normal
2.	Die cutting - normal
3.	Die cutting - parallel
4.	Die cutting - normal
5.	Die cutting - parallel
6.	Die cutting - parallel
7.	Die cutting - normal
8.	Die cutting - normal
9.	Die cutting - normal
10.	Method Ba, Angle (Unnicked)
11.	10°C/min

Recommended distributors for this material

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