

Arnitel® PB500-H

TPC-ET

Blow Molding Grade, Heat Stabilized

Print Date: 2020-02-19

Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Melt volume-flow rate	2	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133
Mechanical properties			
	Value		
Shore D Hardness (3s)	50	-	ISO 868
Shore A Hardness (3s)	94	-	ISO 868
Tensile modulus	155	MPa	ISO 527-1/-2
Stress at break	26.8	MPa	ISO 527-1/-2
Nominal strain at break	165	%	ISO 527-1/-2
Stress at 5% strain	8.1	MPa	ISO 527-1/-2
Stress at 10% strain	12.1	MPa	ISO 527-1/-2
Stress at 50% strain	19.2	MPa	ISO 527-1/-2
Stress at 100% strain	23.2	MPa	ISO 527-1/-2
Tear strength	115	kN/m	ISO 34-1; Method B
Thermal properties			
	Value		
Melting temperature (10°C/min)	202	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	63	°C	ISO 75-1/-2
Other properties			
	Value		
Density	1220	kg/m ³	ISO 1183
Humidity absorption	0.5	%	Sim. to ISO 62

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Properties	Typical Data	Unit	Test Method
Mechanical properties (die cutting)	Value		
Stress at break (normal)	33	MPa	ISO 527-1/-2
Stress at 5% strain (normal)	7.7	MPa	ISO 527-1/-2
Stress at 10% strain (normal)	11.7	MPa	ISO 527-1/-2
Stress at 50% strain (normal)	3.9	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	14.2	MPa	ISO 527-1/-2
Strain at break (normal)	700	%	ISO 527-1/-2
Stress at 10% strain (parallel)	9	MPa	ISO 527-1/-2
Stress at 10% strain (parallel) (+100°C)	4.6	MPa	ISO 527-1/-2
Tear strength (normal)	115	kN/m	ISO 34-1; Method B

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