

Arnitel[®] PB500-H

TPC-ET

Blow Molding Grade, Heat Stabilized

Print Date: 2024-09-17

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
Molding shrinkage (parallel)	1.7	%	ISO 294-4
Molding shrinkage (normal)	1.8	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	50	—	ISO 868
Shore A Hardness (3s)	94	—	ISO 868
Tensile modulus	175	MPa	ISO 527-1/-2
Stress at break	27	MPa	ISO 527-1/-2
Nominal strain at break	150	%	ISO 527-1/-2
Stress at 5% strain	9.4	MPa	ISO 527-1/-2
Stress at 10% strain	14	MPa	ISO 527-1/-2
Stress at 50% strain	22	MPa	ISO 527-1/-2
Stress at 100% strain	26	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	14	kJ/m ²	ISO 179/1eA
MECHANICAL PROPERTIES (DIE CUTTING)			
	VALUE		
Stress at break (normal)	36	MPa	ISO 527-1/-2
Stress at 5% strain (normal)	8.5	MPa	ISO 527-1/-2

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Stress at 10% strain (normal)	11	MPa	ISO 527-1/-2
Stress at 50% strain (normal)	14	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	15	MPa	ISO 527-1/-2
Strain at break (normal)	640	%	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)	116	kN/m	ISO 34-1; Method B
Tear strength (parallel)	121	kN/m	ISO 34-1; Method B

<i>THERMAL PROPERTIES</i>	<i>VALUE</i>		
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

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1220	kg/m ³	ISO 1183
Humidity absorption	0.5	%	Sim. to ISO 62

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