

Arnitel[®] PB500–H

TPC–ET

Blow Molding Grade, Heat Stabilized

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

Property Data

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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

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/m³	ISO 1183
Humidity absorption	0.5	%	Sim. to ISO 62