

# Arnitel<sup>®</sup> PB420-B

TPC-ET  
Blow Molding Grade

Print Date: 2024-04-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Melt volume-flow rate	11	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133
Molding shrinkage [parallel]	1.5	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2.3	%	Sim. to ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	VALUE		
Shore D Hardness (3s)	37	—	ISO 868
Tensile modulus	70	MPa	ISO 527-1/-2
Stress at break	17.5	MPa	ISO 527-1/-2
Nominal strain at break	160	%	ISO 527-1/-2
Stress at 5% strain	3.5	MPa	ISO 527-1/-2
Stress at 10% strain	6	MPa	ISO 527-1/-2
Stress at 50% strain	12	MPa	ISO 527-1/-2
Stress at 100% strain	16	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	N	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength (-30°C)	N	kJ/m <sup>2</sup>	ISO 180/1A
<b>MECHANICAL PROPERTIES (DIE CUTTING)</b>			
	VALUE		
Stress at break (normal)	27	MPa	ISO 527-1/-2

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Stress at 5% strain (normal)	4	MPa	ISO 527–1/–2
Stress at 10% strain (normal)	6.2	MPa	ISO 527–1/–2
Stress at 50% strain (normal)	9.3	MPa	ISO 527–1/–2
Stress at 100% strain (normal)	10.4	MPa	ISO 527–1/–2
Strain at break (normal)	760	%	ISO 527–1/–2
Stress at 10% strain (parallel)	5.5	MPa	ISO 527–1/–2
Stress at 10% strain (parallel) (+100°C)	3	MPa	ISO 527–1/–2
Tear strength (normal)	104	kN/m	ISO 34–1; Method B
Tear strength (parallel)	91	kN/m	ISO 34–1; Method B
THERMAL PROPERTIES	VALUE		
Melting temperature (10°C/min)	212	°C	ISO 11357–1/–3
Temp. of deflection under load (0.45 MPa)	65	°C	ISO 75–1/–2
OTHER PROPERTIES	VALUE		
Density	1180	kg/m³	ISO 1183

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