

Arnitel® PB420

TPC-ET
Blow Molding Grade

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume-flow rate	10	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133
MECHANICAL PROPERTIES		VALUE	
Shore D Hardness (3s)	38	—	ISO 868
Tensile modulus	70	MPa	ISO 527-1/-2
Stress at break	19	MPa	ISO 527-1/-2
Nominal strain at break	170	%	ISO 527-1/-2
Stress at 5% strain	3.7	MPa	ISO 527-1/-2
Stress at 10% strain	6.2	MPa	ISO 527-1/-2
Stress at 50% strain	12.2	MPa	ISO 527-1/-2
Stress at 100% strain	16	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	N	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m²	ISO 180/1A
Izod notched impact strength (-30°C)	N	kJ/m²	ISO 180/1A
MECHANICAL PROPERTIES (DIE CUTTING)		VALUE	
Stress at break (normal)	28	MPa	ISO 527-1/-2
Stress at 5% strain (normal)	3.7	MPa	ISO 527-1/-2
Stress at 10% strain (normal)	5.9	MPa	ISO 527-1/-2

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Stress at 50% strain (normal)	9.3	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	10.2	MPa	ISO 527-1/-2
Strain at break (normal)	740	%	ISO 527-1/-2
Stress at 10% strain (parallel)	5.5	MPa	ISO 527-1/-2
Stress at 10% strain (parallel) (+100°C)	2.9	MPa	ISO 527-1/-2
Tear strength (normal)	107	kN/m	ISO 34-1; Method B
Tear strength (parallel)	106	kN/m	ISO 34-1; Method B

THERMAL PROPERTIES	VALUE		
Melting temperature (10°C/min)	210	°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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