

Arnitel® PB582-H

TPC-ET

Blow Molding Grade, Heat Stabilized

Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Melt volume-flow rate	2.9	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133
Mechanical properties			
	Value		
Shore D Hardness (3s)	55	-	ISO 868
Tensile modulus	300	MPa	ISO 527-1/-2
Stress at break	30	MPa	ISO 527-1/-2
Nominal strain at break	150	%	ISO 527-1/-2
Stress at 5% strain	11.3	MPa	ISO 527-1/-2
Stress at 10% strain	16.5	MPa	ISO 527-1/-2
Stress at 50% strain	22.3	MPa	ISO 527-1/-2
Stress at 100% strain	26.7	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
Izod notched impact strength (+23°C)	N	kJ/m ²	ISO 180/1A
Izod notched impact strength (-30°C)	12	kJ/m ²	ISO 180/1A
Tear strength	100	kN/m	ISO 34-1
Thermal properties			
	Value		
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	100	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	105	°C	ISO 306



Property Data

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Properties	Typical Data	Unit	Test Method
Other properties			
Density	1230	kg/m ³	ISO 1183
Mechanical properties (die cutting)			
Stress at break (normal)	44	MPa	ISO 527-1/-2
Stress at 5% strain (normal)	10.7	MPa	ISO 527-1/-2
Stress at 10% strain (normal)	15	MPa	ISO 527-1/-2
Stress at 50% strain (normal)	17.5	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	17	MPa	ISO 527-1/-2
Strain at break (normal)	650	%	ISO 527-1/-2
Stress at 10% strain (parallel)	14	MPa	ISO 527-1/-2
Stress at 10% strain (parallel) (+100°C)	7.1	MPa	ISO 527-1/-2
Tear strength (normal)	265	MPa	ISO 34

