

Arnitel[®] EB501

TPC-ET

Blow Molding Grade

Print Date: 2024-04-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	7	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	51	–	ISO 868
Shore D Hardness (15s)	51	–	ISO 868
Shore A Hardness (3s)	97	–	ISO 868
Shore A Hardness (15s)	97	–	ISO 868
Tensile modulus	140	MPa	ISO 527-1/-2
Stress at break	24	MPa	ISO 527-1/-2
Nominal strain at break	150	%	ISO 527-1/-2
Stress at 5% strain	6.5	MPa	ISO 527-1/-2
Stress at 10% strain	11	MPa	ISO 527-1/-2
Stress at 50% strain	18	MPa	ISO 527-1/-2
Stress at 100% strain	21	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m ²	ISO 180/1A
Tear strength	123	kN/m	ISO 34-1; Method B
THERMAL PROPERTIES			
	VALUE		
Melting temperature (10°C/min)	204	°C	ISO 11357-1/-3

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Vicat softening temperature (50°C/h 50N)	54	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	2.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	2.2	E-4/°C	ISO 11359-1/-2
<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1180	kg/m ³	ISO 1183
Humidity absorption	1.19	%	Sim. to ISO 62

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