

Arnitel[®] EB464

TPC-ET

Blow Molding Grade

Print Date: 2024-04-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	8	cm ³ /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	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	39	—	ISO 868
Shore D Hardness (15s)	39	—	ISO 868
Tensile modulus	67	MPa	ISO 527-1/-2
Stress at break	21.5	MPa	ISO 527-1/-2
Nominal strain at break	300	%	ISO 527-1/-2
Stress at 5% strain	3.4	MPa	ISO 527-1/-2
Stress at 10% strain	6	MPa	ISO 527-1/-2
Stress at 50% strain	11	MPa	ISO 527-1/-2
Stress at 100% strain	13.9	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	N	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m ²	ISO 180/1A
Izod notched impact strength (-20°C)	N	kJ/m ²	ISO 180/1A
Tear strength	95	kN/m	ISO 34-1; Method B

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES (DIE CUTTING)		VALUE	
Stress at break (normal)	32	MPa	ISO 527-1/-2
Stress at 5% strain (normal)	3.4	MPa	ISO 527-1/-2
Stress at 10% strain (normal)	5.7	MPa	ISO 527-1/-2
Stress at 50% strain (normal)	8.5	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	9	MPa	ISO 527-1/-2
Strain at break (normal)	950	%	ISO 527-1/-2
Stress at 10% strain (parallel)	5	MPa	ISO 527-1/-2
Stress at 10% strain (parallel) (-40°C)	12.5	MPa	ISO 527-1/-2
Stress at 10% strain (parallel) (+100°C)	2.6	MPa	ISO 527-1/-2
Tear strength (normal)	106	kN/m	ISO 34-1; Method B
Tear strength (parallel)	95	kN/m	ISO 34-1; Method B
THERMAL PROPERTIES		VALUE	
Melting temperature (10°C/min)	213	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 10N)	150	°C	ISO 306
OTHER PROPERTIES		VALUE	
Density	1150	kg/m ³	ISO 1183
Water absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62

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