

Arnitel® EB463

TPC-ET

Blow Molding Grade

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Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Melt volume-flow rate	10.5	cm ³ /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	65	MPa	ISO 527-1/-2
Stress at break	18	MPa	ISO 527-1/-2
Nominal strain at break	200	%	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	11.5	MPa	ISO 527-1/-2
Stress at 100% strain	15	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
Thermal properties			
	Value		
Melting temperature (10°C/min)	203	°C	ISO 11357-1/-3
Other properties			
	Value		
Density	1150	kg/m ³	ISO 1183

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Properties	Typical Data	Unit	Test Method
Water absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Mechanical properties (die cutting)		Value	
Stress at break (normal)	24	MPa	ISO 527-1/-2
Stress at 5% strain (normal)	3.4	MPa	ISO 527-1/-2
Stress at 10% strain (normal)	5.5	MPa	ISO 527-1/-2
Stress at 50% strain (normal)	8.3	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	8.9	MPa	ISO 527-1/-2
Strain at break (normal)	810	%	ISO 527-1/-2
Stress at 10% strain (parallel)	5.3	MPa	ISO 527-1/-2
Stress at 10% strain (parallel) (+100°C)	2.8	MPa	ISO 527-1/-2
Tear strength Graves (without nick) (normal)	235	MPa	ISO 34

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