Property Data

Envalior
Imagine the Future

Arnitel® EB463

TPC–ET

Blow Molding Grade

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	10.5	cm³/10min	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)	38	–	ISO 868
Tensile modulus	65	MPa	ISO 527–1/–2
Stress at break	17	MPa	ISO 527–1/–2
Nominal strain at break	210	%	ISO 527–1/–2
Stress at 5% strain	3.7	MPa	ISO 527–1/–2
Stress at 10% strain	6.1	MPa	ISO 527–1/–2
Stress at 50% strain	11.5	MPa	ISO 527–1/–2
Stress at 100% strain	14	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 (–20°C)	N	kJ/m²	ISO 180/1A
Izod notched impact strength (–30°C)	N	kJ/m²	ISO 180/1A
MECHANICAL PROPERTIES (DIE CUTTING)	**VALUE**		

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Stress at break (normal)	23	MPa	ISO 527–1/–2
Stress at 5% strain (normal)	3.7	MPa	ISO 527–1/–2
Stress at 10% strain (normal)	5.7	MPa	ISO 527–1/–2
Stress at 50% strain (normal)	8.3	MPa	ISO 527–1/–2
Stress at 100% strain (normal)	9.5	MPa	ISO 527–1/–2
Strain at break (normal)	740	%	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 (normal)	103	kN/m	ISO 34–1; Method B
Tear strength (parallel)	88	kN/m	ISO 34–1; Method B

THERMAL PROPERTIES	VALUE		
Melting temperature (10°C/min)	203	°C	ISO 11357–1/–3

OTHER PROPERTIES	VALUE		
Density	1150	kg/m³	ISO 1183
Water absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62