Property Data

Envalior
Imagine the Future

Arnitel® EM631–HB

TPC–ET

Extrusion Grade, Heat Stabilized

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	3	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES	**VALUE**		
Shore D Hardness (3s)	57	–	ISO 868
Shore D Hardness (15s)	57	–	ISO 868
Shore A Hardness (3s)	98	–	ISO 868
Shore A Hardness (15s)	98	–	ISO 868
Tensile modulus	260	MPa	ISO 527–1/–2
Stress at break	31	MPa	ISO 527–1/–2
Nominal strain at break	250	%	ISO 527–1/–2
Stress at 5% strain	11.4	MPa	ISO 527–1/–2
Stress at 10% strain	16.5	MPa	ISO 527–1/–2
Stress at 50% strain	20.9	MPa	ISO 527–1/–2
Stress at 100% strain	22.1	MPa	ISO 527–1/–2
Charpy notched impact strength (+23°C)	21	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	11	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	21	kJ/m²	ISO 180/1A
Izod notched impact strength (–30°C)	10	kJ/m²	ISO 180/1A
Tear strength	148	kN/m	ISO 34–1; Method B
Compression Set under constant strain at 70 °C	29	%	ISO 815

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
THERMAL PROPERTIES	***VALUE***		
Melting temperature (10°C/min)	212	°C	ISO 11357–1/–3
Glass Transition Temperature from DMTA (E)	–30	°C	ASTM D5026/D7028
Vicat softening temperature (50°C/h 50N)	110	°C	ISO 306
Vicat softening temperature (50°C/h 10N)	200	°C	ISO 306
OTHER PROPERTIES	***VALUE***		
Density	1230	kg/m³	ISO 1183
Humidity absorption	0.16	%	Sim. to ISO 62

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