

Arnitel[®] EL250/U

TPC—ET

Injection Molding, UV Stabilized

Print Date: 2025–08–21

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Melt volume–flow rate	48	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	1	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	VALUE		
Shore D Hardness (3s)	25	—	ISO 868
Shore A Hardness (3s)	85	—	ISO 868
Tensile modulus	18	MPa	ISO 527–1/–2
Stress at break	11	MPa	ISO 527–1/–2
Nominal strain at break	500	%	ISO 527–1/–2
Stress at 5% strain	1	MPa	ISO 527–1/–2
Stress at 10% strain	2.1	MPa	ISO 527–1/–2
Stress at 50% strain	4.2	MPa	ISO 527–1/–2
Stress at 100% strain	4.5	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)	180	°C	ISO 11357–1/–3

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10

ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	5E12	Ohm*m	IEC 62631-3-1

OTHER PROPERTIES	VALUE		
Density	1090	kg/m³	ISO 1183
Apparent density	645	kg/m³	ISO 60
Water absorption	0.8	%	Sim. to ISO 62

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