

Arnitel[®] EL250-08

TPC-ET

Food Contact Quality, Injection Molding

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	45	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	25	–	ISO 868
Shore A Hardness (3s)	85	–	ISO 868
Tensile modulus	25	MPa	ISO 527-1/-2
Stress at break	16	MPa	ISO 527-1/-2
Nominal strain at break	900	%	ISO 527-1/-2
Stress at 5% strain	1.2	MPa	ISO 527-1/-2
Stress at 10% strain	2.1	MPa	ISO 527-1/-2
Stress at 50% strain	4.4	MPa	ISO 527-1/-2
Stress at 100% strain	5.1	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
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

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
<i>ELECTRICAL PROPERTIES</i>			
	<i>VALUE</i>		
Volume resistivity	5E12	Ohm*m	IEC 62631-3-1
<i>OTHER PROPERTIES</i>			
	<i>VALUE</i>		
Density	1080	kg/m ³	ISO 1183
Apparent density	645	kg/m ³	ISO 60
Water absorption	0.8	%	Sim. to ISO 62