Property Data

Envalior
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Arnitel® EM400–08

TPC–ET

Food Contact Quality, Injection Molding or Extrusion Grade

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt flow index MFI	32	g/10min	ISO 1133
MFI test load	2.16	kg	ISO 1133
MFI test temperature	230	°C	ISO 1133
Molding shrinkage [parallel]	1.5	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.5	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Shore D Hardness (15s)	33	–	ISO 868
Tensile modulus	40	MPa	ISO 527–1/–2
Yield stress	6	MPa	ISO 527–1/–2
Yield strain	50	%	ISO 527–1/–2
Stress at break	20	MPa	ISO 527–1/–2
Stress at 10% strain	3	MPa	ISO 527–1/–2
Stress at 100% strain	6.6	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
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	195	°C	ISO 11357–1/–3
ELECTRICAL PROPERTIES	**VALUE**		

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Relative permittivity (100Hz)	4.1	–	IEC 62631–2–1
Relative permittivity (1 MHz)	4	–	IEC 62631–2–1
Dissipation factor (100 Hz)	10	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	170	E–4	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Electric strength	20	kV/mm	IEC 60243–1

OTHER PROPERTIES	*VALUE*		
Density	1110	kg/m³	ISO 1183