Property Data

Envalior
Imagine the Future

Arnite® A04 900

PET

Medium Viscosity, Nucleated, Food Contact Quality

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	30	cm³/10min	ISO 1133
Temperature	290	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage [normal]	1.7	%	Sim. to ISO 294–4
Molding shrinkage [parallel]	1.7	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	2800	MPa	ISO 527–1/–2
Yield stress	80	MPa	ISO 527–1/–2
Yield strain	4	%	ISO 527–1/–2
Nominal strain at break	12	%	ISO 527–1/–2
Charpy impact strength (+23°C)	N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	255	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	80	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	90	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.7	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.7	E–4/°C	ISO 11359–1/–2
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695–11–10
Thickness tested	0.75	mm	IEC 60695–11–10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695–11–10

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10

ELECTRICAL PROPERTIES	*VALUE*		
Relative permittivity (100Hz)	3.3	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3.2	-	IEC 62631-2-1
Dissipation factor (100 Hz)	20	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	21	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Comparative tracking index (PLC)	1	class	UL 746A

OTHER PROPERTIES	*VALUE*		
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1370	kg/m³	ISO 1183