

Arnitel[®] EM400-08

TPC-ET

Food Contact Quality, Injection Molding or Extrusion Grade

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/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)	195	°C	ISO 11357-1/-3
ELECTRICAL PROPERTIES	VALUE		

Property Data

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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