

Arnitel[®] EM460/U

TPC-ET

Injection Molding or Extrusion Grade

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume-flow rate	50	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	1.25	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.5	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES		VALUE	
Shore D Hardness (3s)	43	—	ISO 868
Tensile modulus	82	MPa	ISO 527-1/-2
Yield stress	9	MPa	ISO 527-1/-2
Yield strain	45	%	ISO 527-1/-2
Stress at break	18	MPa	ISO 527-1/-2
Nominal strain at break	500	%	ISO 527-1/-2
Stress at 5% strain	3.2	MPa	ISO 527-1/-2
Stress at 10% strain	5.6	MPa	ISO 527-1/-2
Stress at 50% strain	8.2	MPa	ISO 527-1/-2
Stress at 100% strain	8.3	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



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THERMAL PROPERTIES			
	VALUE		
Melting temperature (10°C/min)	189	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion (parallel)	1.6	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.6	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
	VALUE		
Relative permittivity (1 MHz)	4.4	—	IEC 62631-2-1
Dissipation factor (1 MHz)	350	E-4	IEC 62631-2-1
Volume resistivity	1E11	Ohm*m	IEC 62631-3-1
OTHER PROPERTIES			
	VALUE		
Density	1150	kg/m³	ISO 1183
Water absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62

