

Arnitel[®] EM740-H

TPC-ET

Extrusion Grade, Heat Stabilized

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume-flow rate	4	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES		VALUE	
Shore D Hardness (3s)	71	—	ISO 868
Tensile modulus	950	MPa	ISO 527-1/-2
Stress at break	26	MPa	ISO 527-1/-2
Nominal strain at break	35	%	ISO 527-1/-2
Stress at 5% strain	34	MPa	ISO 527-1/-2
Stress at 10% strain	36	MPa	ISO 527-1/-2
Charpy notched impact strength (-30°C)	8	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	18	kJ/m ²	ISO 180/1A
Flexural modulus	940	MPa	ISO 178
Compression Set under constant strain at 70 °C	55	%	ISO 815
MECHANICAL PROPERTIES (DIE CUTTING)		VALUE	
Stress at break (normal)	58	MPa	ISO 527-1/-2
Tear strength (normal)	224	kN/m	ISO 34-1; Method B
Tear strength (parallel)	228	kN/m	ISO 34-1; Method B
Strain at break (normal)	570	%	ISO 527-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
THERMAL PROPERTIES			
	VALUE		
Melting temperature (10°C/min)	221	°C	ISO 11357–1/–3
ELECTRICAL PROPERTIES			
	VALUE		
Relative permittivity (1 MHz)	3.8	–	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Comparative tracking index	600	V	IEC 60112
OTHER PROPERTIES			
	VALUE		
Density	1290	kg/m³	ISO 1183
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62