

Arnitel® PL460-S

TPC-ET FR(17)

Injection Molding, Flame Retardant

Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Melt volume-flow rate	18	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Mechanical properties			
	Value		
Shore D Hardness (3s)	60	-	ISO 868
Tensile modulus	240	MPa	ISO 527-1/-2
Stress at break	21.3	MPa	ISO 527-1/-2
Nominal strain at break	235	%	ISO 527-1/-2
Stress at 10% strain	10.6	MPa	ISO 527-1/-2
Stress at 100% strain	16.1	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	60	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	22	kJ/m ²	ISO 179/1eA
Thermal properties			
	Value		
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	Yes	-	-
Electrical properties			
	Value		
Relative permittivity (100Hz)	5.3	-	IEC 60250
Relative permittivity (1 MHz)	4.8	-	IEC 60250



Property Data

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Properties	Typical Data	Unit	Test Method
Other properties	Value		
Density	1410	kg/m ³	ISO 1183
Water absorption	3.5	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62

