

Arnitel® PL461

TPC-ET

Injection Molding

Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Melt volume-flow rate	39	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	1.6	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.8	%	Sim. to ISO 294-4
Mechanical properties			
	Value		
Shore D Hardness (3s)	45	-	ISO 868
Tensile modulus	135	MPa	ISO 527-1/-2
Stress at break	21	MPa	ISO 527-1/-2
Nominal strain at break	350	%	ISO 527-1/-2
Stress at 5% strain	6	MPa	ISO 527-1/-2
Stress at 10% strain	9.2	MPa	ISO 527-1/-2
Stress at 50% strain	13.2	MPa	ISO 527-1/-2
Stress at 100% strain	14.4	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 (-30°C)	N	kJ/m ²	ISO 180/1A
Tear strength	94	kN/m	ISO 34-1; Method B
Thermal properties			
	Value		
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3



Property Data

Arnitel[®] PL461

Properties	Typical Data	Unit	Test Method
Temp. of deflection under load (0.45 MPa)	65	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 10N)	189	°C	ISO 306
Other properties		Value	
Density	1200	kg/m ³	ISO 1183

