

Arnitel[®] PL461

TPC-ET

Injection Molding

Print Date: 2024-03-27

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

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
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/m³	ISO 1183

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