

Arnitel[®] PL650

TPC-ET

Injection Molding

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	26	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [normal]	1.7	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	62	—	ISO 868
Tensile modulus	430	MPa	ISO 527-1/-2
Yield stress	25	MPa	ISO 527-1/-2
Yield strain	24	%	ISO 527-1/-2
Stress at break	35	MPa	ISO 527-1/-2
Nominal strain at break	365	%	ISO 527-1/-2
Stress at 5% strain	17.1	MPa	ISO 527-1/-2
Stress at 10% strain	22.1	MPa	ISO 527-1/-2
Stress at 50% strain	22.9	MPa	ISO 527-1/-2
Stress at 100% strain	22.1	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	23	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	7	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	21	kJ/m ²	ISO 180/1A
Izod notched impact strength (-20°C)	5	kJ/m ²	ISO 180/1A
Tear strength	150	kN/m	ISO 34-1; Method B

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THERMAL PROPERTIES			
	<i>VALUE</i>		
Melting temperature (10°C/min)	221	°C	ISO 11357-1/-3
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
OTHER PROPERTIES			
	<i>VALUE</i>		
Density	1250	kg/m ³	ISO 1183

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