

Arnitel[®] PL420-H

TPC-ET

Injection Molding, Heat Stabilized

Print Date: 2024-04-10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	23	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]	1.75	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	38	—	ISO 868
Tensile modulus	75	MPa	ISO 527-1/-2
Stress at break	15	MPa	ISO 527-1/-2
Nominal strain at break	275	%	ISO 527-1/-2
Stress at 5% strain	3.5	MPa	ISO 527-1/-2
Stress at 10% strain	6	MPa	ISO 527-1/-2
Stress at 50% strain	9.8	MPa	ISO 527-1/-2
Stress at 100% strain	11	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 (-20°C)	N	kJ/m ²	ISO 180/1A
Izod notched impact strength (-30°C)	N	kJ/m ²	ISO 180/1A
Flexural modulus	80	MPa	ISO 178

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
MECHANICAL PROPERTIES (DIE CUTTING)			
	<i>VALUE</i>		
Tear strength (normal)	105	kN/m	ISO 34-1; Method B
Tear strength (parallel)	97	kN/m	ISO 34-1; Method B
THERMAL PROPERTIES			
	<i>VALUE</i>		
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
ELECTRICAL PROPERTIES			
	<i>VALUE</i>		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
OTHER PROPERTIES			
	<i>VALUE</i>		
Density	1180	kg/m ³	ISO 1183

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