

Arnitel[®] EL150

TPC-ET

Injection Molding

Print Date: 2024-03-27

Arnitel EL150 is a very low modulus grade with nominal hardness of 20D. Material can be processed by many conventional thermoplastics processing techniques such as injection molding. It is important to note that in a certain periods, clumps can be formed due to excessive storage conditions such as packing type, stacking, extreme temperature. Pl. refer injection molding recommendations

Food contact use – Not Applicable.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	76	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	0.7	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	19	–	ISO 868
Shore D Hardness (15s)	18	–	ISO 868
Shore A Hardness (3s)	80	–	ISO 868
Shore A Hardness (15s)	79	–	ISO 868
Tensile modulus	16	MPa	ISO 527-1/-2
Stress at break	14.4	MPa	ISO 527-1/-2
Nominal strain at break	980	%	ISO 527-1/-2
Stress at 5% strain	0.8	MPa	ISO 527-1/-2
Stress at 10% strain	1.4	MPa	ISO 527-1/-2
Stress at 50% strain	3.1	MPa	ISO 527-1/-2

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Property Data (Provisional)

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Stress at 100% strain	3.8	MPa	ISO 527-1/-2
THERMAL PROPERTIES			
	<i>VALUE</i>		
Melting temperature (10°C/min)	165	°C	ISO 11357-1/-3
OTHER PROPERTIES			
	<i>VALUE</i>		
Density	1060	kg/m ³	ISO 1183
Humidity absorption	0.12	%	Sim. to ISO 62

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