

Arnitel[®] EL700

TPC-ET

Injection Molding

Print Date: 2024-09-17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt flow index MFI	28	g/10min	ISO 1133
MFI test load	2.16	kg	ISO 1133
MFI test temperature	230	°C	ISO 1133
Molding shrinkage [parallel]	1.75	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES		VALUE	
Shore D Hardness (3s)	65	—	ISO 868
Tensile modulus	550	MPa	ISO 527-1/-2
Yield stress	30	MPa	ISO 527-1/-2
Stress at break	30.8	MPa	ISO 527-1/-2
Nominal strain at break	500	%	ISO 527-1/-2
Stress at 5% strain	20	MPa	ISO 527-1/-2
Stress at 10% strain	26	MPa	ISO 527-1/-2
Stress at 50% strain	23	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	16	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES		VALUE	
Melting temperature (10°C/min)	216	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	52	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.75	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.75	E-4/°C	ISO 11359-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
OTHER PROPERTIES	VALUE		
Density	1260	kg/m³	ISO 1183
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62

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