

TECHNICAL DATA SHEET

Arnitel® PL581

Envalior
TPC

Processing

Injection molding, Other extrusion

Delivery Form

Pellets

Product Text

Product Information

Injection Molding

ISO 18064 TPC-ET

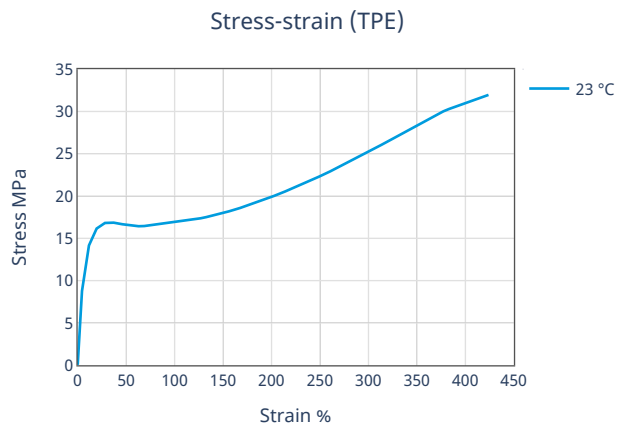
Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	15	cm ³ /10min	ISO 1133
Temperature	230	°C	
Load	2.16	kg	
Mechanical Properties	Value	Unit	Standard
Yield stress	17	MPa	ISO 527
Yield strain	35	%	ISO 527
Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	16	kJ/m ²	ISO 179/1eA
Stress at 10% elongation	13.2	MPa	ISO 527
Stress at 100% elongation	17	MPa	
Strain at break TPE	300	%	ISO 527
Stress at break TPE	31	MPa	ISO 527
Tear strength, parallel	125	kN/m	ISO 34-1
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	218	°C	ISO 11357-1/-3
Temp. of deflection under load, 0.45 MPa	100	°C	ISO 75-1/-2
Vicat softening temperature, B	105	°C	ISO 306
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2

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Thermal Properties	Value	Unit	Standard
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
Electrical Properties	Value	Unit	Standard
Relative permittivity, 1MHz	4		IEC 62631-2-1
Dissipation factor, 1MHz	400	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	21	kV/mm	IEC 60243-1
Comparative tracking index	600		IEC 60112
Other Properties	Value	Unit	Standard
Water absorption	2.5	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62
Density	1235	kg/m ³	ISO 1183

Diagrams



Processing Information

Injection molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Trouble shooting guideline for injection molding

Other extrusion

Arnitel® Recommendations for Extrusion