

TECHNICAL DATA SHEET

Arnitel® PM581

Envalior
TPC

Processing

Film extrusion, Profile extrusion, Sheet extrusion, Other extrusion

Delivery Form

Pellets

Product Text

Product Information

Extrusion Grade

ISO 18064 TPC-ET

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	4	cm ³ /10min	ISO 1133
Temperature	230	°C	
Load	2.16	kg	
Mechanical Properties	Value	Unit	Standard
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
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	14	MPa	ISO 527
Stress at 100% elongation	20	MPa	
Stress at break TPE	26	MPa	ISO 527
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	218	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-57	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	100	°C	ISO 75-1/-2
Vicat softening temperature, B	80	°C	ISO 306
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2

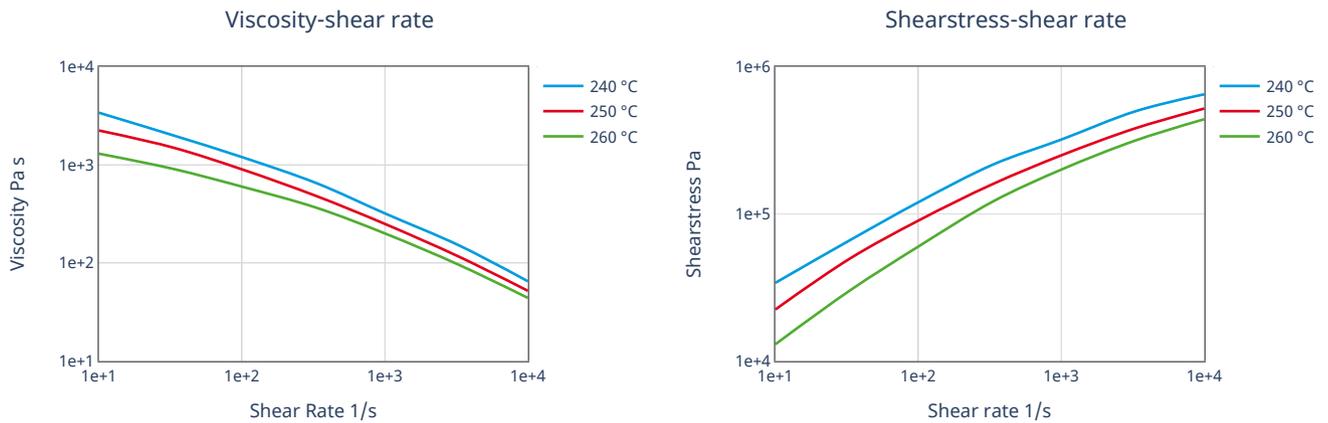
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Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	4.7		IEC 62631-2-1
Relative permittivity, 1MHz	4.4		IEC 62631-2-1
Dissipation factor, 100Hz	310	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	810	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	21	kV/mm	IEC 60243-1
Comparative tracking index	600		IEC 60112

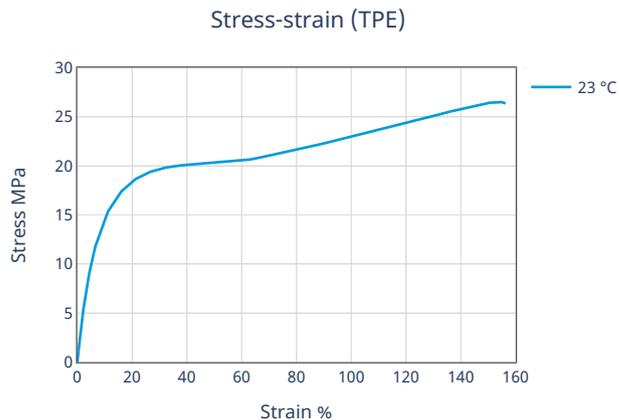
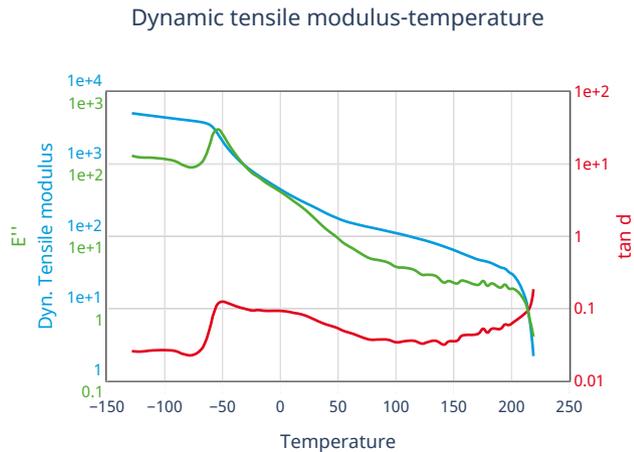
Other Properties	Value	Unit	Standard
Water absorption	2.5	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62
Density	1235	kg/m ³	ISO 1183

Diagrams



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Processing Information

Film extrusion

Arnitel® Recommendations for Extrusion

Other extrusion

Arnitel® E & P tube manufacturing guidelines

Arnitel® Recommendations for Extrusion