

**TECHNICAL DATA SHEET**

# Arnitel® PM381

Envalior  
TPC

**Processing**

Film extrusion, Profile extrusion, Sheet extrusion, Other extrusion

**Delivery Form**

Pellets

**Certifications**

Food contact

## Product Text

**Product Information**

Film Extrusion, Food Contact Quality

ISO 18064 TPC-ET

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	4.7	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	
Load	2.16	kg	
Mechanical Properties	Value	Unit	Standard
Charpy notched impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eA
Stress at 10% elongation	4	MPa	ISO 527
Stress at 100% elongation	10.9	MPa	
Stress at break TPE	12.5	MPa	ISO 527
Tear strength, parallel	52	kN/m	ISO 34-1
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	212	°C	ISO 11357-1/-3
Temp. of deflection under load, 0.45 MPa	44	°C	ISO 75-1/-2
Vicat softening temperature, B	120	°C	ISO 306
Coeff. of linear therm. expansion, parallel	150	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	150	E-6/K	ISO 11359-1/-2

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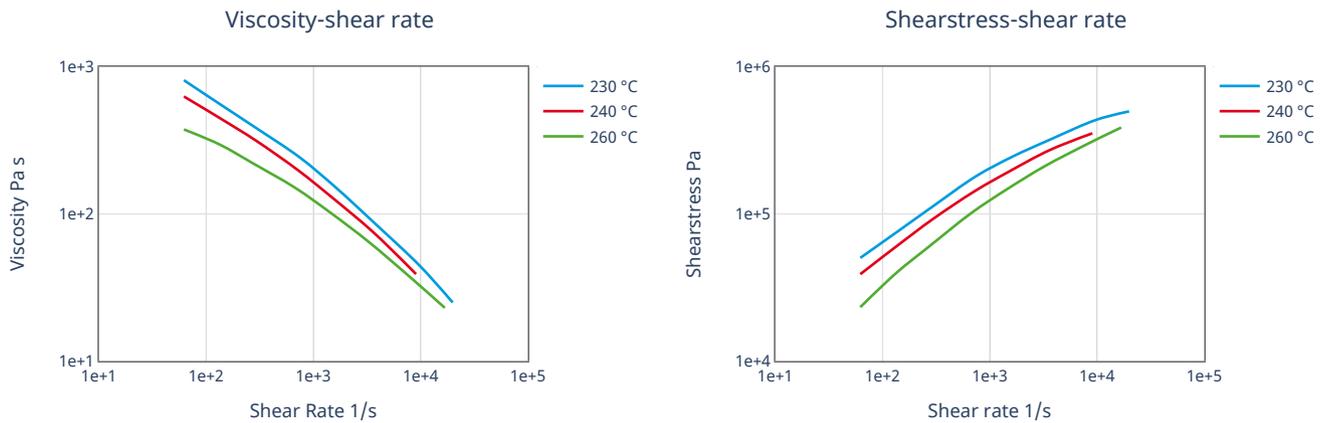
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Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	4.7		IEC 62631-2-1
Relative permittivity, 1MHz	4.4		IEC 62631-2-1
Dissipation factor, 100Hz	310	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	810	E-4	IEC 62631-2-1
Volume resistivity	1E12	Ohm*m	IEC 62631-3-1
Electric strength	20	kV/mm	IEC 60243-1
Comparative tracking index	600		IEC 60112

Other Properties	Value	Unit	Standard
Water absorption	7	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62
Density	1160	kg/m <sup>3</sup>	ISO 1183

## Diagrams



## Processing Information

Film extrusion

Arnitel® Recommendations for Extrusion

Other extrusion

Arnitel® Recommendations for Extrusion