


**Arnitel® PM381 - Shore 32 D**

TPC

DSM Engineering Plastics

**Product Texts**

Extrusion Grade

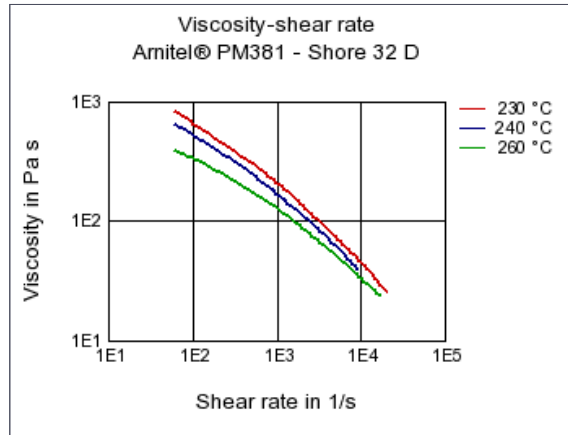
ISO 18064 TPC-ET

[Arnitel website](#)

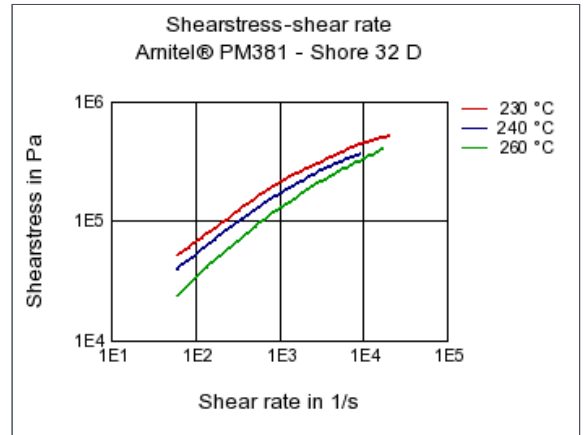
Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	4.7	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	42	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	N	kJ/m²	ISO 179/1eA
Stress at 10% elongation	4	MPa	ISO 527-1/-2
Stress at 100% elongation	10.9	MPa	ISO 527-1/-2
Stress at break TPE	12.5	MPa	ISO 527-1/-2
Tear strength	52	kN/m	ISO 34-1
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature (10°C/min)	212	°C	ISO 11357-1/-3
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
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 100Hz	4.7	-	IEC 60250
Relative permittivity, 1MHz	4.4	-	IEC 60250
Dissipation factor, 100Hz	310	E-4	IEC 60250
Dissipation factor, 1MHz	810	E-4	IEC 60250
Volume resistivity	1E12	Ohm*m	IEC 60093
Electric strength	20	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	7	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62
Density	1160	kg/m³	ISO 1183

Diagrams

Viscosity-shear rate



Shearstress-shear rate



Characteristics

Processing

Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

Delivery form

Pellets