

**Arnitel® PL380 - Shore 32 D**

TPC

DSM Engineering Plastics

**Product Texts**

Injection Molding

ISO 18064 TPC-ET

[Arnitel website](#)

<b>Rheological properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
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**ISO Data**

Melt volume-flow rate, MVR	31.5	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
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**ISO Data**

Tensile Modulus	44	MPa	ISO 527-1/-2
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
Tensile notched impact strength, +23°C	179	kJ/m <sup>2</sup>	ISO 8256/1
Stress at 10% elongation	4	MPa	ISO 527-1/-2
Stress at 100% elongation	8	MPa	ISO 527-1/-2
Stress at 300% elongation	11.8	MPa	ISO 527-1/-2
Stress at break TPE	16	MPa	ISO 527-1/-2
Tear strength	75	kN/m	ISO 34-1

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
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**ISO Data**

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	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	IEC 60695-11-10
UL recognition	UL	-	-

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
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**ISO Data**

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>Value</b>	<b>Unit</b>	<b>Test Standard</b>
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**ISO Data**

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

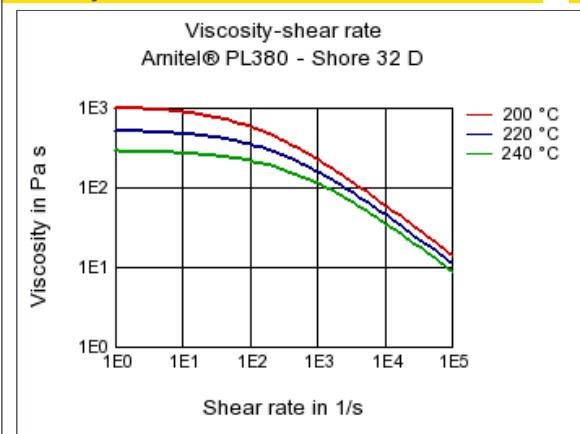
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### Diagrams

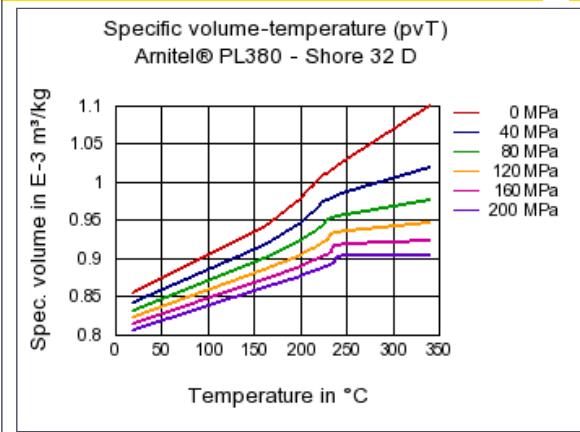
#### Viscosity-shear rate



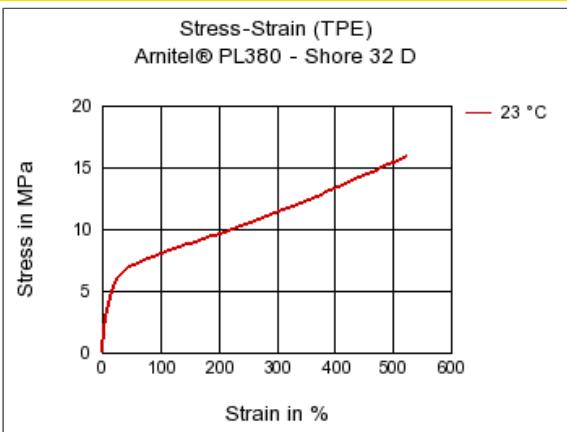
#### Shearstress-shear rate



#### Specific volume-temperature (pvT)



#### Stress-Strain (TPE)



### Characteristics

#### Processing

Injection Molding

#### Delivery form

Pellets

#### Other text information

#### Injection Molding

[Injection Molding Recommendations](#)