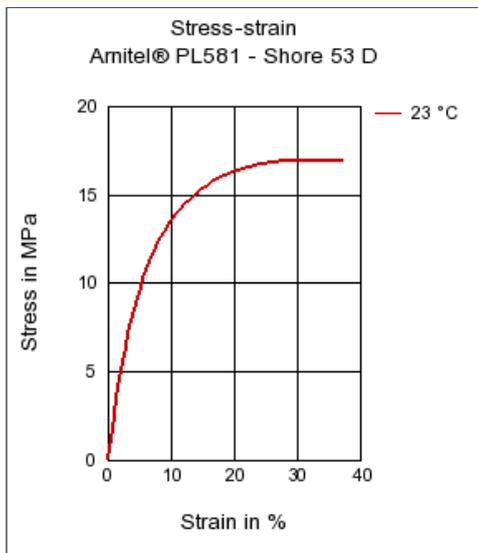




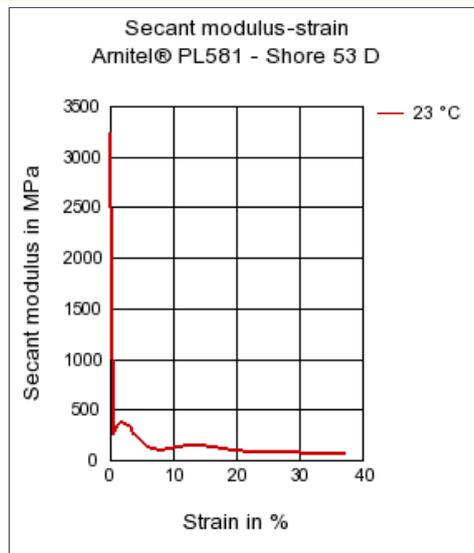
<b>Arnitel® PL581 - Shore 53 D</b>			
TPC		DSM Engineering Plastics	
<b>Product Texts</b>			
Injection Molding			
ISO 18064 TPC-ET			
<b>Rheological properties</b>			
	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	15	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
<b>Mechanical properties</b>			
	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	210	MPa	ISO 527-1/-2
Yield stress	17	MPa	ISO 527-1/-2
Yield strain	35	%	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	16	kJ/m <sup>2</sup>	ISO 179/1eA
Stress at 10% elongation	13.2	MPa	ISO 527-1/-2
Stress at 100% elongation	17	MPa	ISO 527-1/-2
Strain at break TPE	300	%	ISO 527-1/-2
Stress at break TPE	31	MPa	ISO 527-1/-2
Tear strength	125	kN/m	ISO 34-1
<b>Thermal properties</b>			
	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
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, 50°C/h 50N	105	°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
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>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 1MHz	4	-	IEC 60250
Dissipation factor, 1MHz	400	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	21	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>
<b>ISO Data</b>			
Water absorption	2.5	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62
Density	1240	kg/m <sup>3</sup>	ISO 1183

**Diagrams**

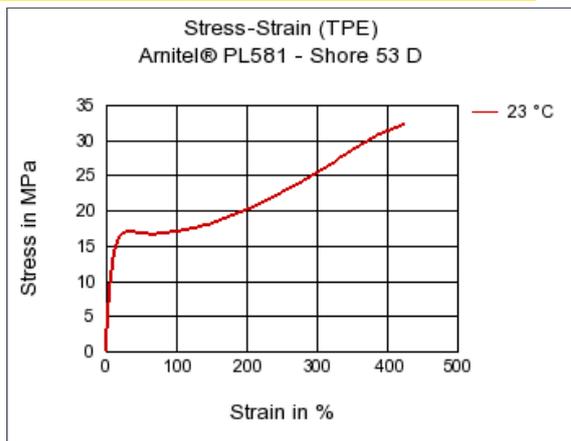
**Stress-strain**



**Secant modulus-strain**



**Stress-Strain (TPE)**



**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Delivery form**

Pellets

**Other text information**

**Injection Molding**

[Injection Molding Recommendations](#)