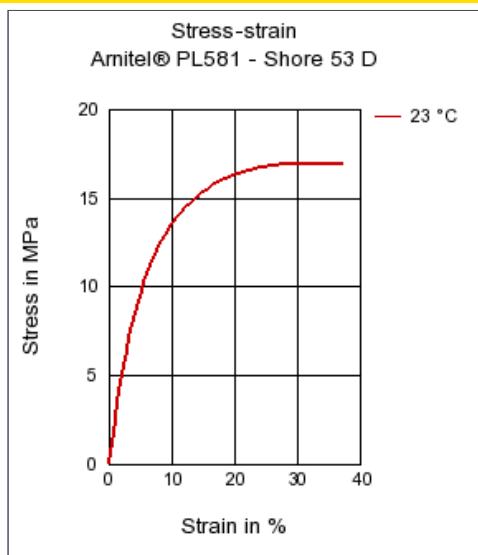


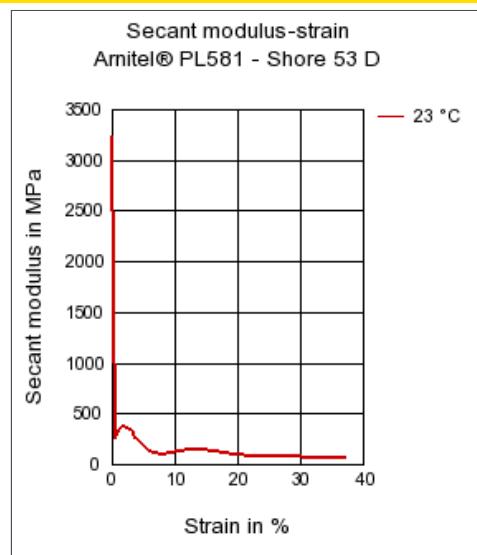
Arnitel® PL581 - Shore 53 D			
TPC			
DSM Engineering Plastics			
Product Texts			
Injection Molding			
ISO 18064 TPC-ET			
Arnitel website			
Rheological properties		Value	Unit
ISO Data			Test Standard
Melt volume-flow rate, MVR		15	cm ³ /10min
Temperature		230	°C
Load		2.16	kg
Mechanical properties		Value	Unit
ISO Data			Test Standard
Tensile Modulus		210	MPa
Yield stress		17	MPa
Yield strain		35	%
Charpy notched impact strength (+23°C)		N	kJ/m ²
Charpy notched impact strength, -30°C		16	kJ/m ²
Stress at 10% elongation		13.2	MPa
Stress at 100% elongation		17	MPa
Strain at break TPE		300	%
Stress at break TPE		31	MPa
Tear strength		125	kN/m
Thermal properties		Value	Unit
ISO Data			Test Standard
Melting temperature (10°C/min)		218	°C
Temp. of deflection under load (0.45 MPa)		100	°C
Vicat softening temperature, 50°C/h 50N		105	°C
Coeff. of linear therm. expansion, parallel		110	E-6/K
Coeff. of linear therm. expansion, normal		110	E-6/K
Burning behav. at 1.5 mm nom. thickn.		HB	class
Thickness tested		1.6	mm
Electrical properties		Value	Unit
ISO Data			Test Standard
Relative permittivity, 1MHz		4	-
Dissipation factor, 1MHz		400	E-4
Volume resistivity		>1E13	Ohm*m
Electric strength		21	kV/mm
Comparative tracking index		600	-
Other properties		Value	Unit
ISO Data			Test Standard
Water absorption		2.5	%
Humidity absorption		0.4	%
Density		1240	kg/m ³

Diagrams

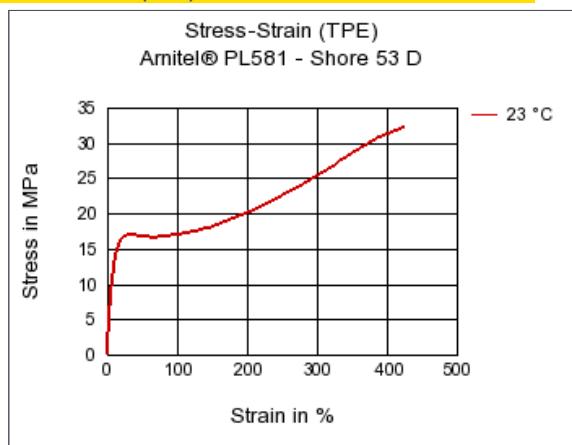
Stress-strain



Secant modulus-strain



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets

Other text information

Injection Molding

[Injection Molding Recommendations](#)