


**Arnitel® CM551 - Shore 51 D**

TPC

DSM Engineering Plastics

**Product Texts**

Heat Resistant Copolyester

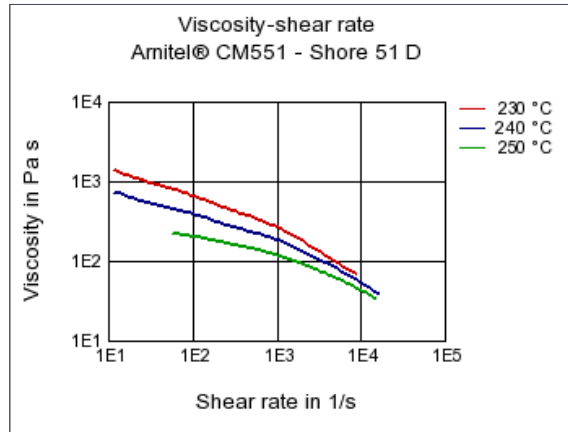
ISO 18064 TPC-ES

[Arnitel website](#)

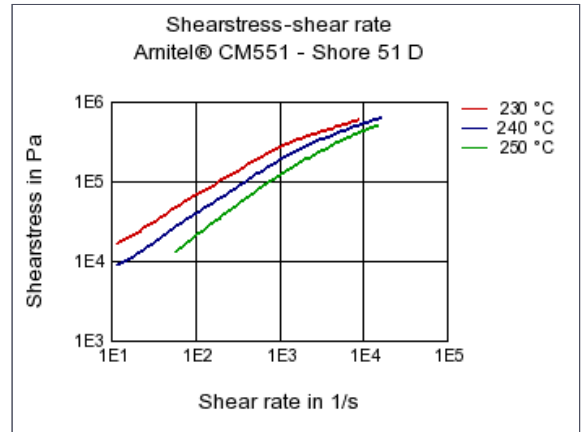
Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	8	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	140	MPa	ISO 527-1/-2
Yield stress	16	MPa	ISO 527-1/-2
Yield strain	38	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 179/1eA
Stress at break TPE	32	MPa	ISO 527-1/-2
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature (10°C/min)	205	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-10	°C	ISO 11357-1/-2
Vicat softening temperature, 50°C/h 50N	170	°C	ISO 306
Coeff. of linear therm. expansion, normal	190	E-6/K	ISO 11359-1/-2
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 100Hz	4.34	-	IEC 60250
Relative permittivity, 1MHz	3.58	-	IEC 60250
Dissipation factor, 100Hz	212	E-4	IEC 60250
Dissipation factor, 1MHz	460	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	15	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Density	1240	kg/m <sup>3</sup>	ISO 1183

## Diagrams

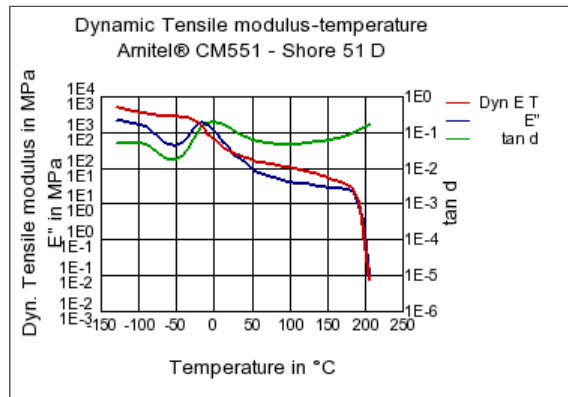
### Viscosity-shear rate



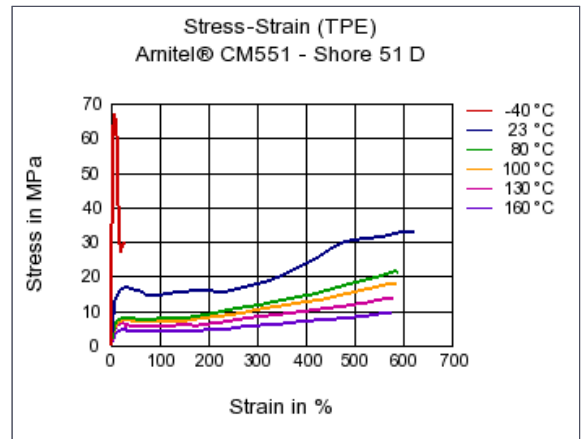
### Shearstress-shear rate



### Dynamic Tensile modulus-temperature



### Stress-Strain (TPE)



## Characteristics

### Processing

Other Extrusion

### Delivery form

Pellets

### Other text information

### Injection Molding

[Injection Molding Recommendations](#)