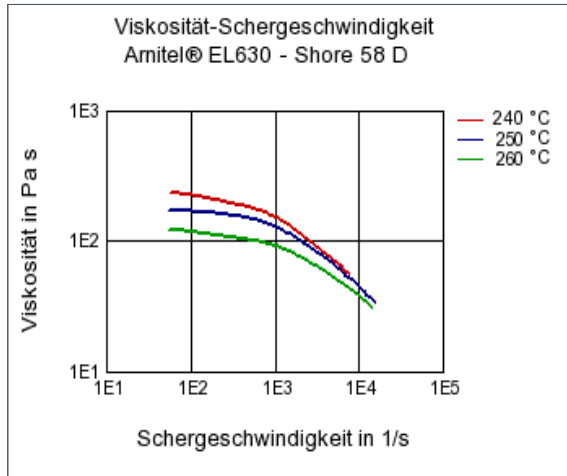




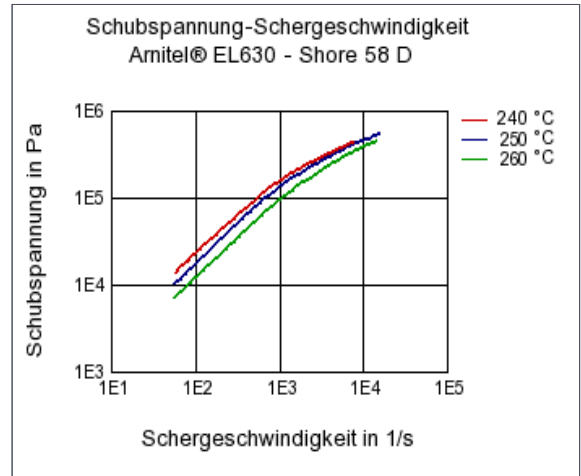
<b>Arnitel® EL630 - Shore 58 D</b>			
TPC			Envalior
<b>Product Texts</b>			
Injection Molding, Food Contact Quality			
ISO 18064 TPC-ET			
<b>Rheological properties</b>		<b>Value</b>	<b>Unit</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	28	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
<b>Mechanical properties</b>		<b>Value</b>	<b>Unit</b>
<b>ISO Data</b>			
Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	12	kJ/m <sup>2</sup>	ISO 179/1eA
Tensile notched impact strength, +23°C	233	kJ/m <sup>2</sup>	ISO 8256/1
Stress at 10% elongation	17	MPa	ISO 527
Stress at 100% elongation	18	MPa	ISO 527
Stress at 300% elongation	20	MPa	ISO 527
Strain at break TPE	>300	%	ISO 527
Stress at break TPE	35	MPa	ISO 527
Compression Set under constant strain, 70°C	43	%	ISO 815
<b>Thermal properties</b>		<b>Value</b>	<b>Unit</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	212	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-60	°C	ISO 11357-1/-2
Temp. of deflection under load, 0.45 MPa	115	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	125	°C	ISO 306
Coeff. of linear therm. expansion, parallel	185	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	185	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	-
Yellow Card available	yes	-	-
<b>Electrical properties</b>		<b>Value</b>	<b>Unit</b>
<b>ISO Data</b>			
Relative permittivity, 100Hz	3.8	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.4	-	IEC 62631-2-1
Dissipation factor, 100Hz	110	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	340	E-4	IEC 62631-2-1
Volume resistivity	1E12	Ohm*m	IEC 62631-3-1
Electric strength	22	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
<b>Other properties</b>		<b>Value</b>	<b>Unit</b>
<b>ISO Data</b>			
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1240	kg/m <sup>3</sup>	ISO 1183

Diagrams

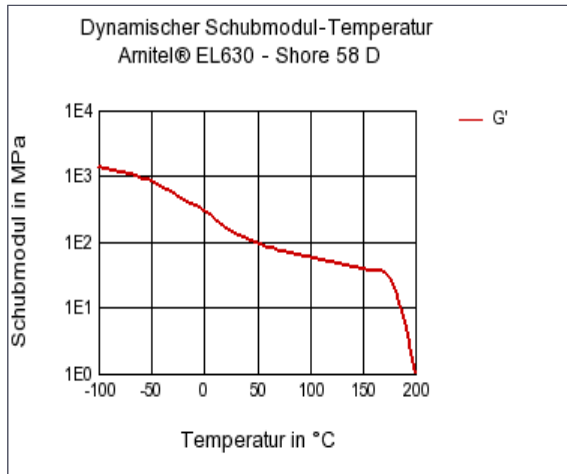
Viscosity-shear rate



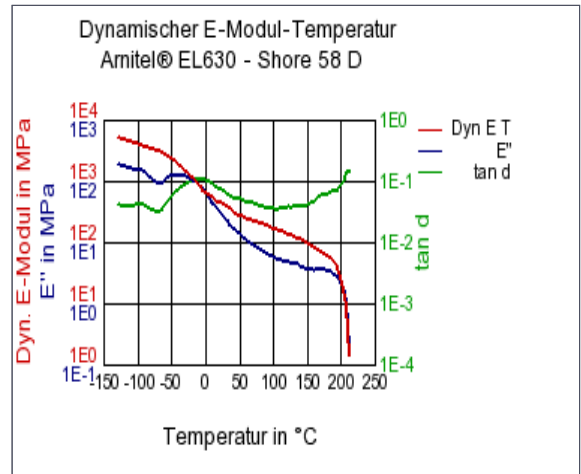
Shearstress-shear rate



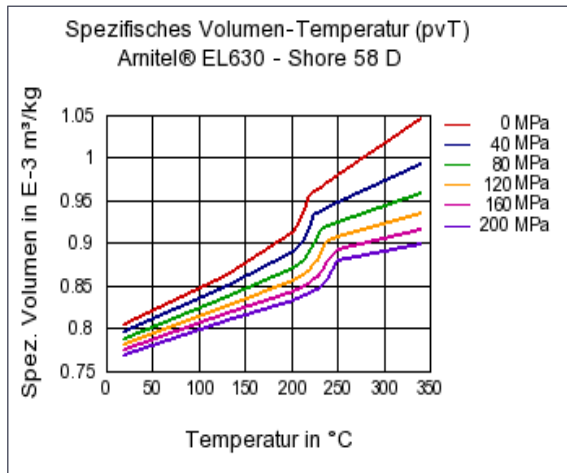
Dynamic Shear modulus-temperature



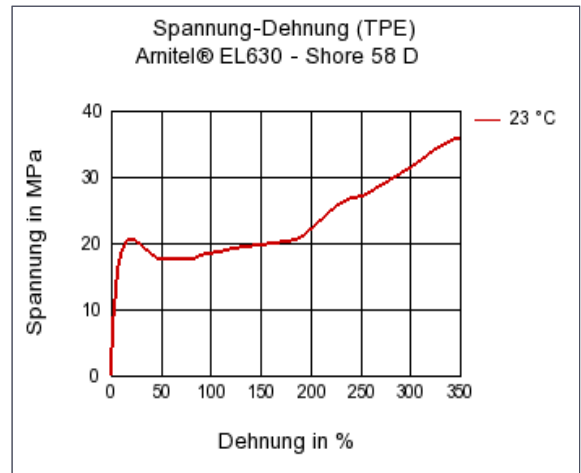
Dynamic Tensile modulus-temperature



Specific volume-temperature (pvT)



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Other text information

**Injection Molding**

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)

**Chemical Media Resistance**

**Hydrocarbons**

😊 Toluene (23°C)

**Ketones**

😊 Acetone (23°C)

**Other**

😊 Water (23°C)