



<b>Arnitel® EM630-H - Shore 59 D</b>			
TPC		DSM Engineering Plastics	
<b>Product Texts</b>			
Extrusion Grade, Heat Stabilized			
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	3.7	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	310	MPa	ISO 527-1/-2
Yield stress	20	MPa	ISO 527-1/-2
Yield strain	29	%	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
Charpy notched impact strength, -30°C	12	kJ/m <sup>2</sup>	ISO 179/1eA
Stress at 10% elongation	16	MPa	ISO 527-1/-2
Stress at 100% elongation	16	MPa	ISO 527-1/-2
Stress at 300% elongation	20	MPa	ISO 527-1/-2
Strain at break TPE	>300	%	ISO 527-1/-2
Stress at break TPE	35	MPa	ISO 527-1/-2
Tear strength	175	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)	212	°C	ISO 11357-1/-3
Vicat softening temperature, 50°C/h 50N	125	°C	ISO 306
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	1.6	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	4.1	-	IEC 60250
Dissipation factor, 1MHz	170	E-4	IEC 60250
Volume resistivity	1.2E11	Ohm*m	IEC 60093
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>Test Standard</b>
<b>ISO Data</b>			
Water absorption	0.63	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1240	kg/m <sup>3</sup>	ISO 1183
<b>Test specimen production</b>			
	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Injection Molding, melt temperature	240	°C	ISO 294

**Aritel® EM630-H - Shore 59 D**

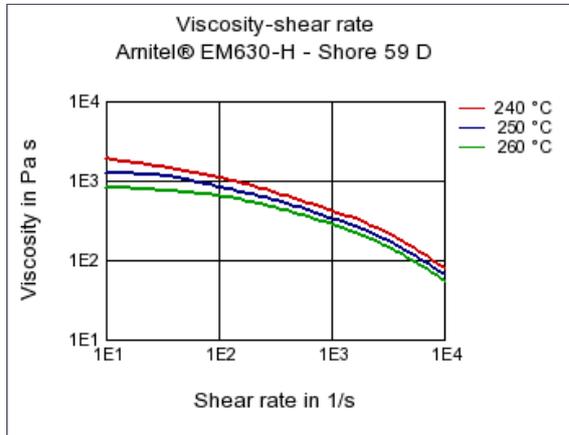
TPC

DSM Engineering Plastics

Injection Molding, mold temperature	35	°C	ISO 10724
Injection Molding, injection velocity	500	mm/s	ISO 294

**Diagrams**

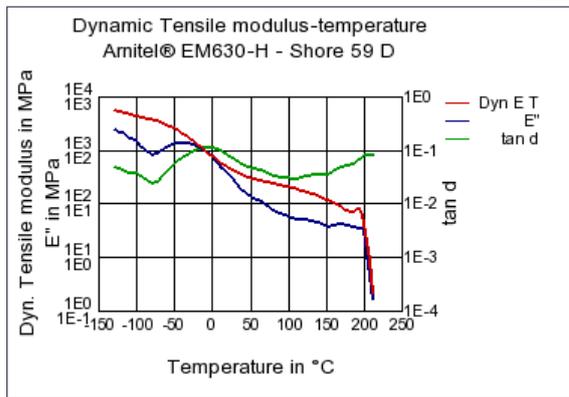
**Viscosity-shear rate**



**Shearstress-shear rate**



**Dynamic Tensile modulus-temperature**



**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Additives**

Release agent

**Delivery form**

Pellets

**Other text information**

**Other extrusion**

[Aritel E & P tube manufacturing guidelines](#)