

# Arnitel<sup>®</sup> CM622

## TPC-ES

60 Shore D, Extrusion

Print Date: 2024-04-10

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>VALUE</b>		
Melt volume-flow rate	9	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>		
Shore D Hardness (3s)	61	–	ISO 868
Shore D Hardness (15s)	61	–	ISO 868
Tensile modulus	300	MPa	ISO 527-1/-2
Stress at break	34	MPa	ISO 527-1/-2
Nominal strain at break	400	%	ISO 527-1/-2
Stress at 5% strain	14	MPa	ISO 527-1/-2
Stress at 10% strain	19	MPa	ISO 527-1/-2
Stress at 50% strain	22	MPa	ISO 527-1/-2
Stress at 100% strain	21	MPa	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)	8	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (-30°C)	6	kJ/m <sup>2</sup>	ISO 180/1A
Flexural modulus	270	MPa	ISO 178
Compression Set under constant strain at 70 °C	37	%	ISO 815
<b>MECHANICAL PROPERTIES (DIE CUTTING)</b>			
	<b>VALUE</b>		
Stress at break (normal)	40	MPa	ISO 527-1/-2

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Tear strength (normal)	171	kN/m	ISO 34-1; Method B
Tear strength (parallel)	191	kN/m	ISO 34-1; Method B
Strain at break (normal)	640	%	ISO 527-1/-2

<i>THERMAL PROPERTIES</i>	<i>VALUE</i>		
Melting temperature (10°C/min)	208	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	90	°C	ISO 306
Vicat softening temperature (50°C/h 10N)	190	°C	ISO 306

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1270	kg/m <sup>3</sup>	ISO 1183
Apparent density	700	kg/m <sup>3</sup>	ISO 60
Humidity absorption	0.1	%	Sim. to ISO 62

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