

# Arnitel<sup>®</sup> HT8027

## TPC-ES

Heat Resistant Copolyester, Blow Molding Grade

Print Date: 2024-09-17

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>RHEOLOGICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Melt flow index MFI	25	g/10min	ISO 1133
MFI test load	10	kg	ISO 1133
MFI test temperature	230	°C	ISO 1133
<b><i>MECHANICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Shore D Hardness (3s)	61	–	ISO 868
Tensile modulus	270	MPa	ISO 527-1/-2
Stress at break	26	MPa	ISO 527-1/-2
Nominal strain at break	290	%	ISO 527-1/-2
Stress at 5% strain	13	MPa	ISO 527-1/-2
Stress at 10% strain	19	MPa	ISO 527-1/-2
Stress at 50% strain	25	MPa	ISO 527-1/-2
Stress at 100% strain	25	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)	8.7	kJ/m <sup>2</sup>	ISO 179/1eA
<b><i>MECHANICAL PROPERTIES (DIE CUTTING)</i></b>			
	<b><i>VALUE</i></b>		
Stress at break (normal)	45	MPa	ISO 527-1/-2
Stress at 5% strain (normal)	15	MPa	ISO 527-1/-2
Stress at 10% strain (normal)	20	MPa	ISO 527-1/-2
Stress at 50% strain (normal)	22	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	20	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>
Strain at break (normal)	630	%	ISO 527-1/-2
Tear strength (normal)	175	kN/m	ISO 34-1; Method B
Tear strength (parallel)	203	kN/m	ISO 34-1; Method B
<b><i>THERMAL PROPERTIES</i></b>			
	<i>VALUE</i>		
Melting temperature (10°C/min)	206	°C	ISO 11357-1/-3
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<i>VALUE</i>		
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
<b><i>OTHER PROPERTIES</i></b>			
	<i>VALUE</i>		
Density	1270	kg/m <sup>3</sup>	ISO 1183
Apparent density	700	kg/m <sup>3</sup>	ISO 60

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