

# Arnitel<sup>®</sup> HT8027

## TPC-ES

Heat Resistant Copolyester, Blow Molding Grade

Print Date: 2025-12-03

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>		VALUE	
Melt flow index MFI	25	g/10min	ISO 1133
MFI test load	10	kg	ISO 1133
MFI test temperature	230	°C	ISO 1133
<b>MECHANICAL PROPERTIES</b>		VALUE	
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>MECHANICAL PROPERTIES (DIE CUTTING)</b>		VALUE	
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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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
THERMAL PROPERTIES	VALUE		
Melting temperature (10°C/min)	206	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion (parallel)	1.9	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.8	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
OTHER PROPERTIES	VALUE		
Density	1270	kg/m³	ISO 1183
Apparent density	700	kg/m³	ISO 60

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