

Arnitel[®] HT8027

TPC—ES

Heat Resistant Copolyester, Blow Molding Grade

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt flow index MFI	25	g/10min	ISO 1133
MFI test load	10	kg	ISO 1133
MFI test temperature	230	°C	ISO 1133
MECHANICAL PROPERTIES		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/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8.7	kJ/m²	ISO 179/1eA
MECHANICAL PROPERTIES (DIE CUTTING)		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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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

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

