



ABS Technical Sheet

Physical Properties	Test Method	Unit	Value
Specific Gravity	ISO 1183	g/cm ³	1.04
Water Absorption	ISO 62	%	0.4
Humidity Absorption	ISO 62	%	0.1
Maximum Permissible Service Temp	UL746B	°C	70
Lower Permissible Service Temp	UL746B	°C	-50
Mechanical properties	Test Method	Unit	Value
Tensile Strength at Yield	ISO 527	MPa	37
Elongation at Yield	ISO 527	%	7
Tensile Strength at Break	ISO 527	MPa	33
Elongation at Break	ISO 527	%	8
Impact Strength	ISO 179	kJ/m ²	333
Notch Impact Strength	ISO 179	kJ/m ²	37
Ball Indentation / Rockwell Hardness	ISO 2039	MPa	R 105
Shore D	ISO 868	-	70
Flexural Strength	ISO 178	MPa	67
Modulus of Elasticity	ISO 527	MPa	2210
Thermal Properties	Test Method	Unit	Value
Vicat-softening Point (VST/B/50 / VST/A/50)	ISO 306	°C	103 / -
Heat Deflection Temperature (HDT/B / HDT/A)	ISO 75	°C	100 / 88
Coefficient of Linear Thermal Expansion	ISO 11359	K ⁻¹ *10 ⁻⁴	0.8
Thermal Conductivity at 20°C	ISO 22007-4	W/(m*K)	-
Melting Temperature	ISO 3146	°C	145
Electrical Properties	Test Method	Unit	Value
Volume Resistivity	IEC 60093	Ω*cm	-
Surface Resistivity	IEC 60093	Ω	≥ 10 ¹³
Dielectric Constant at 1MHz	IEC 60250	-	-
Dielectric Loss Factor at 1 MHz	IEC 60250	-	-
Dielectric Strength	IEC 60243-1	kV/mm	-
Tracking Resistance	IEC 60112	V	-
Additional Data	Test Method	Unit	Value
Bondability	-	-	+
Physiological Indifference	EEC / FDA	-	- / +
Flammability	UL94	-	HB
UV Stabilisation	-	-	-

