

POM C

Physical properties			
SPECIFIC GRAVITY	ISO 1183	g/cm ³	1,39
WATER ABSORPTION	ISO 62	%	0,8
HUMIDITY ABSORPTION	ISO 62	%	0,2
MAXIMUM PERMISSIBLE SERVICE TEMP.	UL746B	°C	100
LOWER PERMISSIBLE SERVICE TEMP.	UL746B	°C	-40
Mechanical properties			
TENSILE STRENGTH AT YIELD	ISO 527	MPa	67
ELONGATION AT YIELD	ISO 527	%	22
TENSILE STRENGTH AT BREAK	ISO 527	MPa	65
ELONGATION AT BREAK	ISO 527	%	28
IMPACT STRENGTH	ISO 179	Kj/m ²	n.b.
NOTCH IMPACT STRENGTH	ISO 179	Kj/m ²	6
BALL INDENTATION /ROCKWELL HARDNESS	ISO 2039	MPa	125
SHORE D	ISO 868		83
FLEXURAL STRENGTH	ISO 178	MPa	
MODULUS OF ELASTICITY	ISO 527	MPa	2855
Thermal properties			
VICAT-SOFTENING POINT VDT/B/50	ISO 306	°C	150
VICAT-SOFTENING POINT VDT/A/50	ISO 306	°C	-
HEAT DEFLECTION TEMPERATURE HDT/B	ISO 75	°C	155
HEAT DEFLECTION TEMPERATURE HDT/A	ISO 75	°C	95
COEF.OF LINEAR THERMAL EXPANSION	ISO 11359	K ⁻¹ · 10 ⁻⁴	1,2
THERMAL CONDUCTIVITY AT 20°C	ISO 22007-4	W/(m · K)	-
GLASS TRANSITION TEMPERATURE	ISO 3146	°C	-65
MELTING TEMPERATURE	ISO 3146	°C	166
Electrical properties			
VOLUME RESISTIVITY	IEC 60093	Ω·cm	≥ 10 ¹⁰
SURFACE RESISTIVITY	IEC 60093	Ω	≥ 10 ¹⁰
DIELECTRIC CONSTANT AT 1MHz	IEC 60250	-	38
DIELECTRIC LOSS FACTOR AT 1MHz	IEC 60250	-	0,005
DIELECTRIC STRENGTH	IEC 60243-1	Kv/mm	40
TRACKING RESISTANCE	IEC 60112	V	CTI 600
Additional data			
BONDABILITY	-	-	-
PHYSIOLOGICAL INDIFFERENCE ACCORDING	EEC	-	+
PHYSIOLOGICAL INDIFFERENCE ACCORDING	FDA	-	+
FLAMMABILITY	UL 94	-	HB
LIMITING OXYGEN INDEX (LOI)	ASTM D2863	%	18
UV STABILISATION	-	-	-

I valori citati non sono da considerarsi come valori assoluti, ma come indicazioni destinate a guidare la scelta del materiale in funzione dell'utilizzo finale.
 The aforementioned figures are not absolute, but obtained from experiences and tests.
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