

PE1000

General properties			
DENSITY	DIN 53479	g/cm ³	0,93
MOLECULAR WEIGHT		10 ⁶ g/mol	> 5,0
Mechanical properties			
TENSILE MODULUS	ISO 527	MPa	750
YIELD STRESS	ISO 527	MPa	> 17
TENSILE STRENGTH AT BREAK	ISO 527	MPa	> 30
ELONGATION AT BREAK	ISO 527	%	> 250
CHARPY NOTCHED IMPACT STRENGTH AT 23° C	ISO 179	kJ/m ²	nb
CHARPY UNNOTCHED IMPACT STRENGTH AT 23° C	ISO 179	kJ/m ²	nb
CHARPY IMPACT STRENGTH WITH 15° V-notch	ISO 179	kJ/m ²	
HARDNESS	ISO 868	SHORE D	64
WEAR RESISTANCE	SAND-SLURRY		100
Thermal properties			
MELTING TEMPERATURE	DIN 53736	°C	130-135
THERMAL CONDUCTIVITY	DIN 52612	W/(m ·K)	0,4
COEFFICIENT OF LINEAR THERMAL EXPANSION (CLTE)	DIN 53752	K ⁻¹	1,5-2,2x10 ⁻⁴
VICAT SOFTENING TEMPERATURE - A50	ISO 306/ A50	°C	
VICAT SOFTENING TEMPERATURE - B50	ISO 306/ B50	°C	80
SERVICE TEMPERATURE (INTERMITTENT)		°C	120
SERVICE TEMPERATURE (LONG TERM)		°C	-200...80
Electrical properties			
VOLUME RESISTIVITY	DIN IEC 60093	Ω·cm	> 10 ¹²
SURFACE RESISTIVITY	DIN IEC 60093	Ω	> 10 ¹²
DIELECTIC STRENGTH	DIN 53481	kV/mm	45
Other properties			
DYNAMIC COEFFICIENT OF FRICTION			0,09-0,17
FLAMMABILITY (THICKNESS 3MM)	UL94		HB

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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