


 Organizzazione con sistema
 di gestione della qualità
 certificato **ISO 9001**

 Organizzazione con sistema
 di gestione della sicurezza
 certificato **ISO 45001**

TECHNICAL DATA SHEET – PE 1000

Product characteristics

- Good mechanical properties
- High abrasion and wear resistance
- Low coefficient of friction

Product applications

- Beverage and food industry
- Mechanical engineering
- Packaging industry

	Test method	Unit	Value
General proprieties			
Density	DIN EN ISO 1183-1	g/cm ³	>0,93
Water adsorption	DIN EN ISO 62	%	<0,01
Flammability (th. 3-6 mm)	UL 94		HB
Molecular weight	-	10 ⁶ g/mol	~ 9
Mechanical proprieties			
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>650
Notched impact strength	DIN EN ISO 179	kJ/m ²	>100
Shore hardness	DIN EN ISO 868	Scale D	>63
Thermal proprieties			
Melting temperature	ISO 11357-3	°C	130...135
Thermal conductivity	DIN 52612-1	W / (m*k)	0,40
Thermal capacity	DIN 52612	KJ / (kg*k)	1,90
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ k	150 - 230
Service temperature, short term (max)	Average	°C	130
Service temperature, long term	Average	°C	-250...80
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	80

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Electrical properties

Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$> 10^{14}$
Surface resistivity	DIN EN 62631-3-2	Ω	$> 10^{14}$
Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10^6 Hz)	IEC 60250		0,0001
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	> 40

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