


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

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

TECHNICAL DATA SHEET – PE 500

Product characteristics

- Good mechanical properties
- Very wear, cutting and scratch resistant
- Physiologically safe

Product applications

- Food / mechanical engineering industry
- Lining technology
- Bakery and confectionery

	Test method	Unit	Value
General proprieties			
Density	DIN EN ISO 1183-1	g/cm ³	>0,95
Water adsorption	DIN EN ISO 62	%	< 0,01
Flammability (th. 3-6 mm)	UL 94		HB
Mechanical proprieties			
Yield stress	DIN EN ISO 527	MPa	>27
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1200
Shore hardness	DIN EN ISO 868	Scale D	65
Thermal properties			
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	80
Service temperature, long term	Average	°C	100....80
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79

PLANOPLAST SRL

Via Veneto, 87
 35040 Casale di Scodosia (PD)
 P.I. 04490830280
 REA Padova PD 393921
 CAP SOC. i.v. € 50.000,00

+39 0429 69 0801
info.plano@advi-group.com
www.advi-group.com





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Electrical properties

Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0002
Volume resistivity	DIN EN 62631-3-1	Ω* cm	>10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ω	>10 ¹⁴
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	>40

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