

ASEC Products
Marketing 17
6921 RE Duiven
The Netherlands
T. +31 316 84 44 01
info@asecproducts.com
www.asecproducts.com

Datasheet AEPE300



AEPE300 is a high-density polyethylene suitable for numerous industrial applications.

Application

Can be used for mechanical engineering, vacuum forming industry and chemical engineering.

Material

Polyethylene 300.

Availablity

	Value	Unit
Rod diameters	10-300	mm
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	6000	mm
Sheet thickness	1-200	mm
Sheet size	1000-6000 x 1000 -2500	mm





The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.



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AEPE300 - Specifications

Physical properties

	Test standard	Value	Unit
Density	DIN EN ISO 1183-1	0,95	g/cm³
Thermal conductivity	DIN 52612-1	0,4	W/m°K
Specific heat capacity		on request	
Moisture absorption at 23°C, 50% RH		on request	
Water absorption at 23 °C	ISO 62	< 0,01	%
Flammability	UL 94	НВ	[-]

Mechanical properties

Freehanical properties			
	Test standard	Value	Unit
Hardness	ISO 868	>60	SHORE D
Yield stress	ISO 527	>22	MPa
Elongation at break	ISO 527	>50	%
Modulus of elasticity in tension	ISO 527	>1000	MPa
Bending modulus		on request	
Flexural strength		on request	
Charpy impact strength +23°C		on request	
Charpy notched impact strength +23°C	ISO 179	>10	kJ/m²
Ball indentation hardness		on request	
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-50	°C
Max. working temperature		80	°C
Intermittent working temperature		100	°C
Heat distortion temperature		on request	
Melting temperature	ISO 11357-3	130	°C
Thermal coefficient of linear expansion	DIN 53752	105230	10-6/K

Friction properties

Test standard Value Unit	
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Electrical properties

	Test standard	Value	Unit
Dielectric constant	IEC 60250	2,4	[-]
Dielectric loss factor		on request	
Dielectric strength	IEC 60243	>40	Kv/mm
Dielectric constant at 1MHZ		on request	
Volume resistivity	DIN EN 62631-3-1	> 10 ¹⁴	Ω.cm

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Electrical properties

Surface resistivity	DIN EN 62631-3-2	> 10 ¹⁴	Ω	
Resistance to tracking (CTI)	IEC 60112	600	[-]	

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