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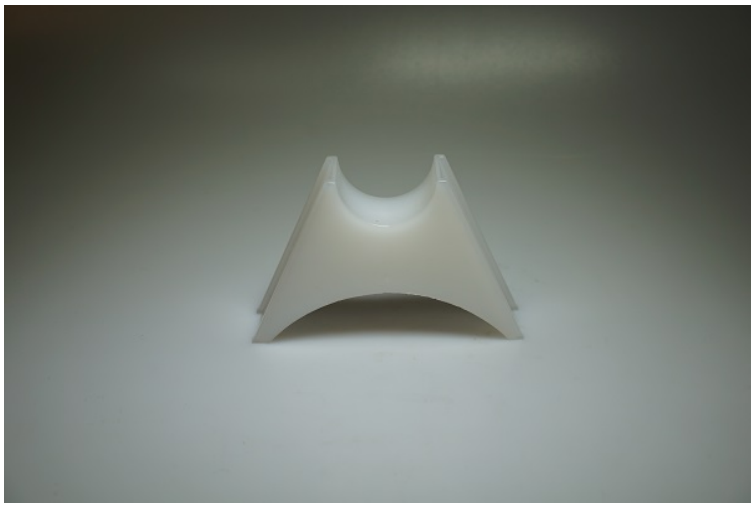

ENGINEERING PLASTICS PE AEPE-300

SKU: AEPE300

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Categories: PE

Features

- Good chemical resistance.
- Good welding and processing properties.
- Good mechanical properties.

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

Material
Polyethyleen (PE)

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

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Availablity		Value	Unit
Rod diameters		10-300	mm
Length standard		6000	mm
Sheet size		1000-6000 x 1000 -2500	mm
Sheet thickness		1-200	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density	ISO 1183-1	0,95	g/cm³
Thermal conductivity	DIN 52612-1	0,4	W/m°K
Mechanical 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 527-2	>1000	MPa
Charpy notched impact strength +23°C	ISO 179	>10	kJ/m²
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-50	°C
Max. working temperature		80	°C
Inter. working temperature		100	°C
Melting temperature	ISO 11357	130	°C
Water absorption at 23 °C	ISO 62	< 0,01	%
Flammability	UL 94	HB	[-]
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric constant	IEC 60250	2,4	kV/mm
Dielectric strength	IEC 60243	>40	Kv/mm
Volume resistivity	DIN EN 62631-3-1	> 10 14	Ω.cm
Surface resistivity	DIN EN 62631-3-2	> 10 14	Ω
Resistance to tracking (CTI)	IEC 60112	600	[-]
Friction properties	**Test standard**	**Value**	**Unit**
Thermal coefficient of linear expansion	DIN 53752	105...230	10-6/K

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