Komplett teknisk dokumentation

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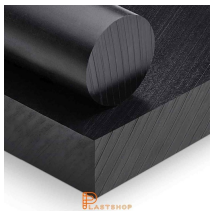

PE-HD 15x1000 mm black

Artikelnummer: P1003202

1. Tekniskt Datablad (TDS)

Density & Weight

EGENSKAP	VÄRDE	ENHET	STANDARD
Density	**0.96**	g/cm³	ISO 1183

Moisture Absorption

EGENSKAP	VÄRDE	ENHET	STANDARD
Water absorption to saturation	**0.01**	%	ISO 62
Water Absorption to Saturation	**0.01**	%	ISO 62

Tensile Properties

EGENSKAP	VÄRDE	ENHET	STANDARD
Tensile Strength	**20**	MPa	ISO 527
Modulus of elasticity (tensile)	**1200**	MPa	ISO 527
Breakdown Voltage	**13**	MPa	ISO 527
Break Elongation	**200**	%	ISO 527

Flexural Properties

EGENSKAP	VÄRDE	ENHET	STANDARD
Flexural Strength	**20**	MPa	ISO527-2

Impact Resistance

EGENSKAP	VÄRDE	ENHET	STANDARD
Notched impact strength (Charpy)	**7.5**	kJ/m²	ISO 179/1eA

EGENSKAP	VÄRDE	ENHET	STANDARD
Impact Resistance (Charpy)	**15**	kJ/m²	ISO 179/1eU

Hardness

EGENSKAP	VÄRDE	ENHET	STANDARD
Hardness Shore D	**60**	° Shore D	shore D
Ball pressure hardness	**50**	MPa	ISO 2039-1

Temperature Limits

EGENSKAP	VÄRDE	ENHET	STANDARD
Melting point	**135**	°C	ISO 3146
Maximal operating temperature (short-term)	**94.5455**	°C	UL746B
Maximum Operating Temperature	**75.5128**	°C	
Minimum temperature	**-50.7609**	°C	
Heat deflection temperature (HDT/A)	**45**	°C	ISO 75-2
Heat deflection temperature (HDT/B)	**69**	°C	ISO 75
Vicat softening temperature (VST/B/50)	**79**	°C	ISO 306

Thermal Conductivity

EGENSKAP	VÄRDE	ENHET	STANDARD
Thermal Conductivity	**0.4**	W/(m·K)	DIN 52612

Thermal Expansion

EGENSKAP	VÄRDE	ENHET	STANDARD
Thermal Expansion Coefficient	**2**	10^{-4}/K	ISO 11359

Insulation Properties

EGENSKAP	VÄRDE	ENHET	STANDARD
Dielectric Strength	**45**	kV/mm	IEC 60243-1
Volume Resistivity	**1000000000000**	Ω·cm	EN 61340-5-1
Dielectric Constant (1 MHz)	**2.4232**	-	IEC 60250
Dielectric Constant (100 Hz)	**2.3**	-	IEC 60250
Dielectric loss factor (1 MHz)	**0.0004**	-	IEC 60250
Dielectric loss factor (100 Hz)	**0.0002**	-	IEC 60250

Static spread			
EGENSKAP	**VÄRDE**	**ENHET**	**STANDARD**
Surface Resistivity	**10000000000000**	Ω	EN 61340-5-1
Comparative Tracking Index (CTI)	**600**	V	IEC 60112

2. Säkerhetsinformation (MSDS)

Klassificering: Ej klassificerad som farlig (CLP/GHS) i fast form.

Hantering: Inga särskilda åtgärder vid normal hantering av fast material. Vid bearbetning: Använd dammutsug. Undvik inandning av damm och smält-ångor.

Lagring: Förvaras torrt, svalt och skyddat mot UV-ljus. 5-40 °C.

Brandrisker: Vid brand: CO, CO_2 och kolväteångor kan bildas.

3. Kemisk beständighet

A Utmärkt B God C Begränsad D Ej rekommenderad

KEMIKALIE	BETYG	KONC.	TEMP.
1,4-Dioxane	excellent	100%%	
2-Hydroxypropionic acid (lactic acid)	excellent	90%%	
Acetaldehyde	excellent		
Acetic acid	excellent	100%%	
Acetic acid	excellent	100%%	
Acetic acid, aqueous	excellent	70%%	
Acetic anhydride	excellent		
Acetone	excellent		
Acetone	excellent	100%%	
Acronal dispersions	excellent		
Acrylonitrile	excellent		
Allyl acetate	excellent		
Allyl alcohol	excellent	96%%	
Allyl chloride	excellent		
Aluminium chloride, aqueous	excellent	any%	
Aluminium chloride, solid	excellent		
Aluminium fluoride	excellent	Conc.%	
Aluminium hydroxide	excellent		

KEMIKALIE	BETYG	KONC.	TEMP.
Aluminium metaphosphate	excellent		
Aluminium sulphate, aqueous saturated	excellent		
Aluminium sulphate, solid	excellent		
Ammonia	excellent	concentrated%	
Ammonia, gaseous	excellent		
Ammonia, liquid	excellent		
Ammonium chloride	excellent		
Amyl alcohol	excellent		
Aniline	excellent	any%	
Anisole	excellent		
Aqua regia	not_recommended		
Beer	excellent		
Benzaldehyde, aqueous	excellent	any%	
Benzene	excellent		
Benzene	not_recommended	technically grade%	
Benzoic acid, aqueous	excellent	any%	
Benzyl alcohol	excellent		
Bitumen	excellent		
Bleaching solution	good	12.5 cl%	
Boric acid	excellent	100%%	
Brake fluid	excellent		
Bromine, liquid	not_recommended	100%%	
Butanol, aqueous	excellent	any%	
Butter	excellent		
Butyl acetate	excellent		
Calcium chloride	excellent		
Calcium hypochlorite, aqueous suspension	excellent	any%	
Camphor	good		
Carbon disulphide	good	100%%	
Carbon disulphide	not_recommended		
Carbon tetrachloride	good		

KEMIKALIE	BETYG	KONC.	TEMP.
Caustic soda (NaOH)	excellent	any%	
Chlorine (gas)	good	100%%	
Chlorine, liquid	not_recommended		
Chloroacetic acid, aqueous	excellent	≤85%%	
Chlorobenzene	good		
Chlorobenzene	good	100%%	
Chloroform	good	technically grade%	
Chloroform	good		
Chromosulphuric acid	not_recommended		
Cider	excellent		
Citric acid	excellent	10%%	
Citrus fruit juices	excellent		
Coconut oil	excellent		
Cod liver oil	excellent		
Cresol	excellent	100%%	
Cresol	excellent		
Cyclohexane	excellent		
Cyclohexanol	excellent		
Cyclohexanone	excellent	100%%	
Cyclohexanone	excellent		
Cyclohexene	excellent	100%%	
Detergents	excellent		
Detergents	excellent	usual%	
Dibutyl ether	excellent		
Dibutyl phthalate	excellent		
Dichloroacetic acid	excellent		
Dichloroethane	good		
Diesel	excellent		
Diesel	excellent		
Diethylene oxide	excellent		
Diglycolic acid, aqueous	excellent	30%%	

KEMIKALIE	BETYG	KONC.	TEMP.
Dimethyl formamide (DMF)	excellent		
Dimethylamine	excellent		
Dioxane	excellent		
Essential oils	good		
Ethyl acetate	excellent	100%%	
Ethyl acetate	excellent		
Ethyl alcohol (ethanol)	excellent	96%%	
Ethylene alcohol	excellent	96%%	
Ethylene chloride	not_recommended		
Ethylene chloride	excellent	100%%	
Ethylene diamine	excellent		
Ethylene glycol	excellent		
Ferric chloride, aqueous	excellent	any%	
Ferric nitrate, aqueous saturated	excellent		
Ferric nitrate, aqueous saturated	excellent		
Ferric sulphate, aqueous saturated	excellent		
Ferric sulphate, aqueous saturated	excellent		
Ferrous (II) chloride, aqueous saturated	excellent		
Ferrous (II) sulfate, aqueous saturated	excellent		
Ferrous (III) chloride, aqueous saturated	excellent		
Food oil	excellent		
Formaldehyde (aqueous)	excellent	40%%	
Formaldehyde, aqueous	excellent	≤40%%	
Formic acid	excellent	10%%	
Formic acid, aqueous	excellent	85%%	
Frigen 12 (Freon 12)	not_recommended	100%%	
Frost protection agent	excellent		
Fruit juices	excellent	any%	
Fuel (aromatic free)	excellent		
Fuel oil	excellent		
Fuel oil	excellent		

KEMIKALIE	BETYG	KONC.	TEMP.
Furfural	excellent		
Glycerine	excellent	100%%	
Glycerine, aqueous	excellent	any%	
Glycol	excellent	100%%	
Glycol, aqueous	excellent	as supplied%	
Glysantin	excellent		
Heptane	excellent		
Heptane	excellent	100%%	
Hexane	excellent		
Honey	excellent		
Hydrobromic acid, aqueous	excellent	50%%	
Hydrochloric acid	excellent	10%%	
Hydrochloric acid (concentrated)	excellent	concentrated%	
Hydrochloric acid, aqueous	excellent	any%	
Hydrofluoric acid	excellent	40%%	
Hydrogen peroxide	excellent	10%%	
Hydrogen sulfide (aqueous)	excellent		
Ink	excellent		
Iodine in potassium iodide solution	excellent	3% iodine%	
Isooctane	excellent		
Isopropanol	excellent		
Isopropyl alcohol	excellent	100%%	
Isopropyl ether	good		
Jam	excellent		
Kerosene	excellent		
Linseed oil	excellent		
Linseed oil	excellent	technically grade%	
Lithium bromide	excellent		
Maleic acid, aqueous	excellent	any%	
Menthol	excellent		
Mercurochrome	excellent		

KEMIKALIE	BETYG	KONC.	TEMP.
Mercury	excellent		
Methanol	excellent	technically grade%	
Methyl alcohol (methanol)	excellent	100%%	
Methyl chloride	not_recommended	gaseous, technically grade%	
Methyl ethyl ketone (MEK)	not_recommended	100%%	
Methyl ethyl ketone (MEK)	excellent	technically grade%	
Methylene chloride	good	100%%	
Milk	excellent		
Milk	excellent		
Mineral oil (aromatic free)	excellent		
Molasses	excellent		
Motor oil (heavy duty) without additives	excellent		
Naphtha	excellent		
Naphthalene	excellent		
Nitric acid	excellent	10%%	
Nitric acid (50%)	good	50%%	
Nitric acid, aqueous	excellent	25%%	
Nitric acid, aqueous	good	50%%	
Nitrobenzene	excellent		
Nitrobenzene	excellent		
Oils, vegetable and animal	excellent		
Oleic acid	excellent		
Oleum (fuming sulphuric acid)	not_recommended	any%	
Oxalic acid	excellent		
Oxalic acid, aqueous	excellent	any%	
Oxygen	excellent		
Ozone	good	50 ppm%	
Ozone (gas)	excellent	≤0.5 ppm%	
Paraffin oil	excellent	100%%	
Perchloric acid, aqueous	excellent	70%%	
Perchloric acid, aqueous	excellent	50%%	

KEMIKALIE	BETYG	KONC.	TEMP.
Perchloric acid, aqueous	excellent	20%%	
Perchloroethylene	good		
Petroleum	excellent		
Petroleum ether	excellent		
Petroleum ether	excellent	100%%	
Phenol	excellent		
Phenol (aqueous)	excellent	≈9%%	
Phosphoric acid	excellent	50%%	
Phosphoric acid, aqueous	excellent	80% L 95%%	
Phosphoric acid, aqueous	excellent	50%%	
Phosphorus trichloride	not_recommended		
Photographic developer	excellent		
Photographic emulsion	excellent	as supplied%	
Photographic fixing bath	excellent	as supplied%	
Phthalic acid, aqueous	excellent	50%%	
Polyester resins	not_recommended		
Potassium hydroxide solution	excellent	50%%	
Premium fuel	excellent		
Propionic acid, aqueous	excellent	any%	
Propyl alcohol	excellent		
Pyridine	excellent		
Pyridine	excellent		
Sea water	excellent		
Silicone oil	excellent	technically grade%	
Silicone oil	excellent		
Sodium borate (borax)	excellent		
Sodium bromide	excellent		
Sodium carbonate (aqueous)	excellent		
Sodium chloride (aqueous)	excellent		
Sodium hydrogen sulfite	excellent		

KEMIKALIE	BETYG	KONC.	TEMP.
Sodium hydroxide solution (60%)	excellent	60%%	
Sodium hydroxide solution (caustic soda)	excellent	15%%	
Sodium hydroxide, aqueous	excellent	any%	
Sodium hydroxide, solid	excellent		
Sodium nitrate (aqueous)	excellent		
Sodium thiosulfate	excellent		
Stearic acid	excellent		
Sugar syrup	excellent		
Sulphuric acid	good	96%%	
Sulphuric acid, aqueous	excellent	70%%	
Sulphuric acid, aqueous	excellent	≤50%%	
Sulphuric acid, aqueous	excellent	98%%	
Sulphuric acid, aqueous	excellent	80%%	
Tallow	excellent	technically grade%	
Tannic acid (tannin), aqueous	excellent	10%%	
Tetrahydrofuran (THF)	good	100%%	
Tetrahydrofuran (THF)	not_recommended	technically grade%	
Thionyl chloride	not_recommended		
Thiophene	not_recommended		
Tin (II) chloride, aqueous	excellent	any%	
Tin (IV) chloride, aqueous	excellent	saturated%	
Toluene	good	100%%	
Toluene	not_recommended	technically grade%	
Transformer oil	excellent		
Transformer oil (insulating oil)	excellent	technically grade%	
Trichloroacetic acid	excellent	technically grade%	
Trichloroethylene	excellent	100%%	
Trichloroethylene	not_recommended	technically grade%	
Triethanolamine	excellent		
Turpentine oil	excellent	technically grade%	
Urea, vattenl.	excellent	≤33%%	

KEMIKALIE	BETYG	KONC.	TEMP.
Vaseline	excellent	technically grade%	
Vinegar (standard)	excellent	5-10%%	
Water	excellent		
Water, distilled	excellent		
Wine	excellent		
Xylene	not_recommended		
Xylene	not_recommended		
Zinc sludge	excellent		

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