PLASTSHOP.SE

Komplett teknisk dokumentation

PlastShop.se - 2026-03-29

PE-500 3000x1250x30 mm natur

Artikelnr	P1200367
Material	PE

1. Tekniskt datablad

Egenskap	Värde	Enhet	Standard
Density	**1.3**	g/cm³	DIN EN ISO 1183-1
Commercial product name	**Polyeten (PE)**		
Tensile Strength	**24.2**	MPa	DIN EN ISO 527
Modulus of elasticity (tensile)	**1100**	MPa	DIN EN ISO 527
Break Elongation	**138.75**	%	DIN EN ISO 527
Melting point	**132.5**	°C	ISO 11357-3
Maximal operating temperature (short-term)	**80**	°C	
Maximum Operating Temperature	**54**	°C	
Minimum temperature	**-100**	°C	
Vicat softening temperature (VST/B/50)	**79**	°C	DIN EN ISO 306
Dielectric Strength	**40**	kV/mm	IEC 60243
Volume Resistivity	**10^{14}**	Ω	DIN EN 62631-3-1
Dielectric Constant (1 MHz)	**2.3**	-	IEC 60250
Dielectric loss factor (1 MHz)	**0.0**	-	IEC 60250
Dielectric loss factor (100 Hz)	**0.0**	-	IEC 60250
GHS classification	**Brandfarlig vid höga temperaturer.. Damm kan orsaka mekanisk irritation vid bearbetning.**		
Physical/chemical hazards	**Brandfarlig vid höga temperaturer.**		
Health Hazards	**Damm kan orsaka mekanisk irritation vid bearbetning.**		
Flammability Classification (UL 94)	**3**		UL 94
Environmental Hazards	**Inga kända miljörisker. Inte biologiskt nedbrytbart.**		
Chemical Characterization	**Polyeten (PE), CAS 9002-88-4**		

Egenskap	Värde	Enhet	Standard
Hazardous Substances	**Produkten innehåller inga farliga ämnen som påbjuder ett röjande.**		
General Information	**Produkten klassas som ofarlig.**		
Inhalation	**Vid inandning av rök/ångor: flytta till frisk luft, håll varm, sök läkarvård vid behov.**		
Skin Contact	**Vid kontakt med smält material: kyl omedelbart med kallt vatten. Ta inte bort stelnat material. Sök sjukvård.**		
In case of eye contact	**Spola med rikliga mängder vatten. Sök sjukvård om irritation kvarstår.**		
Ingestion	**Då produkten är ofarlig behöver ingen första hjälp vidtas.**		
Suitable extinguishing media	**Vatten, skum, gasformiga och torra släckmedel.**		
Personal protective equipment	**Inte tillämpligt.**		
Environmental precautions	**Inte tillämpligt.**		
Methods of Disinfection	**Mekanisk borttagning.**		
Advice on safe handling	**Sug bort spån vid bearbetning. Undvik överhettning.**		
Occupational Exposure Limits	**Ingredienser med yrkesmässiga exponeringsgränser som ska övervakas: Inga.**		
Physical Form	**Platta, rundstång, rör**		
Physical State	**Fast**		
Color	**Naturvit till svart**		
Odour	**Luktfri**		
Conditions to Avoid	**Temperaturer över smältpunkten. Undvik UV-exponering.**		
Materials to Avoid	**Starka oxidanter, syror.**		
Hazardous Decomposition Products	**Koldioxid, kolmonoxid, vaxångor.**		
Acute Toxicity	**Inga negativa hälsoeffekter förväntas vid hantering enligt rekommendationer.**		
Skin Irritation	**Inte tillämpligt.**		
Eye Irritation	**Inte tillämpligt.**		
Sensitization	**Ingen känd.**		
Environmental Impact	**Materialet är inte skadligt för miljön, men är inte biologiskt nedbrytbart.**		
Waste management	**Kasseras enligt lokala bestämmelser. Materialåtervinning möjlig.**		
Transport classification	**Inte klassificerad som farligt gods.**		
REACH information	**Produkten kräver ingen varningsetikett enligt EU-direktiv.**		
Disclaimer	**Informationen är baserad på nuvarande kunskapsnivå. Säkerhetsdatabladet gäller material tillhandahållet av PlastShop.se.**		
Company Name	**ARC Gruppen AB // PlastShop.se**		
Phone	**013-328 9400**		
Email	**info@plastshop.se**		
Thermal Conductivity	**0.4**	W/(m·K)	DIN 52612-1

Egenskap	Värde	Enhet	Standard
Surface Resistivity	**~10^8**	Ω	DIN EN 62631-3-2
Comparative Tracking Index (CTI)	**600**	V	IEC 60112
Hazardous Combustion Products	**Vid förbränning kan koldioxid, kolmonoxid och vaxångor frigöras.**		
Firefighting	**Använd andningsskydd. Brandrester omhändertas enligt lokala regler.**		
Additional information	**Brandrester omhändertas efter gällande lokala regler.**		
Storage conditions	**Förvara torrt och svalt. Håll borta från öppen låga. Välventilerade utrymmen.**		
Breathing Protection	**Adekvat ventilering vid bearbetning.**		
Eye protection	**Skyddsglasögon vid bearbetning.**		
Hand protection	**Skyddshandskar vid kontakt med varmt material.**		
Body Protection	**Arbetskläder.**		
Hygiene Measures	**Välventilerad arbetsplats. Undvik inandning av damm vid bearbetning.**		
Melting point	**125-135°C (PE-HD), 130-145°C (PE-UHMW)**		
Decomposition Temperature	**>350 °C**		
Flash point	**>300 °C**		
Self-ignition temperature	**ca 350°C**		
GefStoffV (Germany)	**Ingen identifikation nödvändig.**		
Water absorption to saturation	**0.0**	%	DIN EN ISO 62
Water Absorption to Saturation	**0.0**	%	DIN EN ISO 62
Notched impact strength (Charpy)	**2**	kJ/m²	DIN EN ISO 179
Thermal Expansion Coefficient	**2.4**	10^{-4}/K	DIN 53752
Density (20°C)	**0,93-0,97 g/cm³ (PE-HD), ISO 1183**		
Solubility (water)	**Olöslig i vatten**		
Explosion Risk	**Icke explosiv**		
Oxidation Characteristics	**Ingen**		
Hardness Shore D	**65**	° Shore D	DIN EN ISO 868
Ball pressure hardness	**50**	MPa	ISO 2039-1

2. Kemisk beständighet

🟢 Beständig 🟡 Delvis beständig 🔴 Ej beständig

Kemikalie	Konc.	Resultat
1,4-Dioxane	100%	🟢
2-Hydroxypropionic Acid	90%	🟢

Kemikalie	Konc.	Resultat
Acetaldehyde	-	🟢
Acetic Acid	100%	🟢
Acetic acid	100%	🟢
Acetic acid	3%	🟢
Acetic acid	3% w/w	🟢
Acetic acid	3%	🟢
Acetic acid	3%	🟢
Acetic acid, aqueous	70%	🟢
Acetic anhydride	-	🟢
Acetone	-	🟢
Acetone	100%	🟢
Acronal dispersions	-	🟢
Acrylonitrile	-	🟢
Allyl acetate	-	🟢
Allyl alcohol	96%	🟢
Allyl chloride	-	🟢
Aluminium chloride, aqueous	any	🟢
Aluminium chloride, solid	-	🟢
Aluminium fluoride	Conc.	🟢
Aluminium hydroxide	-	🟢
Aluminium metaphosphate	-	🟢
Aluminium sulphate, aqueous saturated	-	🟢
Aluminium sulphate, solid	-	🟢
Ammonia	concentrated	🟢
Ammonia, gaseous	-	🟢
Ammonia, liquid	-	🟢
Ammonium Chloride	-	🟢
Amyl Alcohol	-	🟢
Aniline	any	🟢
Anisole	-	🟢
Apple Juice	-	🟢
Aqua regia	-	🔴
Beer	-	🟢
Benzaldehyde, aqueous	any	🟢
Benzene	technically grade	🔴

Kemikalie	Konc.	Resultat
Benzene	-	🟢
Benzoic acid, aqueous	any	🟢
Benzyl alcohol	-	🟢
Bitumen	-	🟢
Bleaching Solution	12.5 cl	🟡
Boric Acid	100%	🟢
Brake Fluid	-	🟢
Bromine, liquid	100%	🔴
Butanol, aqueous	any	🟢
Butter	-	🟢
Butyl Acetate	-	🟢
Calcium Chloride	-	🟢
Calcium carbonate	-	🟢
Calcium carbonate	-	🟢
Calcium hypochlorite, aqueous suspension	any	🟢
Camphor	-	🟡
Carbon Disulfide	100%	🟡
Carbon Tetrachloride	-	🟡
Carbon disulphide	-	🔴
Caustic soda	any	🟢
Chlorine (gas)	100%	🟡
Chlorine, liquid	-	🔴
Chloroacetic acid, aqueous	≤85%	🟢
Chlorobenzene	100%	🟡
Chlorobenzene	-	🟡
Chloroform	technically grade	🟡
Chloroform	-	🟡
Chromosulphuric acid	-	🔴
Cider	-	🟢
Citric Acid	10%	🟢
Citrus fruit juices	-	🟢
Coconut oil	-	🟢
Cod liver oil	-	🟢
Cresol	-	🟢
Cresol	100%	🟢

Kemikalie	Konc.	Resultat
Cyclohexane	-	🟢
Cyclohexanol	-	🟢
Cyclohexanone	100%	🟢
Cyclohexanone	-	🟢
Cyclohexene	100%	🟢
Detergents	-	🟢
Dibutyl ether	-	🟢
Dibutyl phthalate	-	🟢
Dichloroacetic acid	-	🟢
Dichloroethane	-	🟡
Diesel Fuel	-	🟢
Diesel fuel	-	🟢
Diethylene Oxide	-	🟢
Diglycolic acid, aqueous	30%	🟢
Dimethyl formamide	-	🟢
Dimethylamine	-	🟢
Dioxane	-	🟢
Ethanol	10%	🟢
Ethanol	10%	🟢
Ethanol	10% v/v	🟢
Ethanol	10%	🟢
Ethyl Acetate	100%	🟢
Ethyl Alcohol	96%	🟢
Ethyl acetate	-	🟢
Ethylene Chloride	100%	🟢
Ethylene alcohol	96%	🟢
Ethylene chloride	-	🔴
Ethylene diamine	-	🟢
Ethylene glycol	-	🟢
Ferric chloride, aqueous	any	🟢
Ferric nitrate, aqueous saturated	-	🟢
Ferric sulphate, aqueous saturated	-	🟢
Ferrous (II) chloride, aqueous saturated	-	🟢
Ferrous (II) sulfate, aqueous saturated	-	🟢
Ferrous (III) chloride, aqueous saturated	-	🟢

Kemikalie	Konc.	Resultat
Ferrous (III) nitrate, aqueous saturated	-	🟢
Ferrous (III) sulfate, aqueous saturated	-	🟢
Food Oil	-	🟢
Formaldehyde (aqueous)	40%	🟢
Formaldehyde, aqueous	≤40%	🟢
Formic Acid	10%	🟢
Formic acid, aqueous	85%	🟢
Frigen 12 (Freon 12)	100%	🔴
Frost Protection Agent	-	🟢
Fruit juices	any	🟢
Fuel (aromatic free)	-	🟢
Fuel oil	-	🟢
Furfural	-	🟢
Glycerin, aqueous	any	🟢
Glycerine	100%	🟢
Glycol	100%	🟢
Glykol, aqueous	as supplied	🟢
Glysantin	-	🟢
Heating Oil	-	🟢
Heptane	100%	🟢
Heptane	-	🟢
Hexane	-	🟢
Honey	-	🟢
Hydrobromic acid, aqueous	50%	🟢
Hydrochloric Acid	10%	🟢
Hydrochloric Acid (concentrated)	concentrated	🟢
Hydrochloric acid, aqueous	any	🟢
Hydrofluoric Acid	40%	🟢
Hydrogen Peroxide	10%	🟢
Hydrogen Sulfide (aqueous solution)	-	🟢
Ink	-	🟢
Iodine in potassium iodide solution	3% iodine	🟢
Isooctane	-	🟢
Isopropanol	-	🟢

Kemikalie	Konc.	Resultat
Isopropyl Alcohol	100%	🟢
Isopropyl ether	-	🟡
Jam	-	🟢
Kerosene	-	🟢
Linseed Oil	-	🟢
Linseed oil	technically grade	🟢
Lithium bromide	-	🟢
Magnesium stearate	-	🟢
Magnesium stearate	-	🟢
Maleic acid, aqueous	any	🟢
Menthol	-	🟢
Mercurochrome	-	🟢
Mercury	-	🟢
Methanol	technically grade	🟢
Methyl Alcohol	100%	🟢
Methyl Ethyl Ketone (MEK)	100%	🔴
Methyl chloride	gaseous, technically grade	🔴
Methyl ethyl ketone	technically grade	🟢
Methylene Chloride	100%	🟡
Milk	-	🟢
Milk	-	🟢
Mineral Oil (aromatic free)	-	🟢
Molasses	-	🟢
Motor oil (heavy duty oil) without additives	-	🟢
Naphtha	-	🟢
Naphthalene	-	🟢
Nitric Acid	10%	🟢
Nitric Acid (50%)	50%	🟡
Nitric acid, aqueous	50%	🟡
Nitric acid, aqueous	25%	🟢
Nitrobenzene	-	🟢
Nitrobenzene	-	🟢
Oils, ethereal	-	🟡
Oils, vegetable and animal	-	🟢
Oleic acid	-	🟢

Kemikalie	Konc.	Resultat
Oleum	any	🔴
Olive oil	-	🟢
Olive oil	-	🟢
Olive oil	-	🟢
Olive oil	-	🟢
Oxalic Acid	-	🟢
Oxalic acid, aqueous	any	🟢
Oxygen	-	🟢
Ozone	50 ppm	🟡
Ozone Gas	≤0.5 ppm	🟢
Paraffine Oil	100%	🟢
Perchloric acid, aqueous	70%	🟢
Perchloric acid, aqueous	20%	🟢
Perchloric acid, aqueous	50%	🟢
Perchloroethylene	-	🟡
Petroleum	100%	🟢
Petroleum	-	🟢
Petroleum Ether	100%	🟢
Petroleum ether	-	🟢
Phenol	-	🟢
Phenol (aqueous)	≈9%	🟢
Phosphoric Acid	50%	🟢
Phosphoric acid, aqueous	80% L 95%	🟢
Phosphoric acid, aqueous	50%	🟢
Phosphorus trichloride	-	🔴
Photographic developers	-	🟢
Photographic emulsions	as supplied	🟢
Photographic fixing baths	as supplied	🟢
Phthalic acid, aqueous	50%	🟢
Polyester resins	-	🔴
Potassium Hydroxide liquor	50%	🟢
Premium Fuel	-	🟢
Propionic acid, aqueous	any	🟢
Propyl Alcohol	-	🟢
Pyridine	-	🟢

Kemikalie	Konc.	Resultat
Pyridine	-	🟢
Sea water	-	🟢
Silicon dioxide	-	🟢
Silicon dioxide	-	🟢
Silicone Oil	-	🟢
Silicone oil	technically grade	🟢
Sodium Carbonate (aqueous)	-	🟢
Sodium Chloride (aqueous)	-	🟢
Sodium Hydrogen Sulfite	-	🟢
Sodium Hydroxide liquor	15%	🟢
Sodium Hydroxide liquor (60%)	60%	🟢
Sodium Nitrate (aqueous)	-	🟢
Sodium Thiosulfate	-	🟢
Sodium borate	-	🟢
Sodium bromide	-	🟢
Sodium hydroxide, aqueous	any	🟢
Sodium hydroxide, solid	-	🟢
Stearic acid	-	🟢
Sugar syrup	-	🟢
Sulfuric Acid	96%	🟡
Sulphuric acid, aqueous	70%	🟢
Sulphuric acid, aqueous	80%	🟢
Sulphuric acid, aqueous	98%	🟢
Sulphuric acid, aqueous	≤50%	🟢
Tallow	technically grade	🟢
Tannic acid (tannin), aqueous	10%	🟢
Tetrahydrofuran	technically grade	🔴
Tetrahydrofuran (THF)	100%	🟡
Thionyl chloride	-	🔴
Thiophene	-	🔴
Tin (II) chloride, aqueous	any	🟢
Tin (IV) chloride, aqueous	saturated	🟢
Titanium dioxide	-	🟢

Kemikalie	Konc.	Resultat
Titanium dioxide	-	🟢
Toluene	technically grade	🔴
Toluene	100%	🟡
Transformer Oil	-	🟢
Transformer oil (insulating oil)	technically grade	🟢
Trichloracetic acid	technically grade	🟢
Trichloroethylene	technically grade	🔴
Trichloroethylene	100%	🟢
Triethanolamine	-	🟢
Triethanolamine	-	🟢
Turpentine oil	technically grade	🟢
Urea, aqueous	≤33%	🟢
Vaseline	technically grade	🟢
Vinegar (standard)	5-10%	🟢
Washing up liquids	usual	🟢
Water	-	🟢
Water, distilled	-	🟢
Wine	-	🟢
Xylene	-	🔴
Xylene	-	🔴
Zinc sludge	-	🟢