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Ethylene Vinyl Acetate EVA

APPLICATIONS

Teats, handle grips, flexible tubing, record turntable mats, beer tubing, vacuum, cleaner hoses.

PROPERTIES

Flexible (rubbery), transparent, good low temperature flexibility (-70°C), good chemical resistance, high friction coefficient.

PHYSICAL PROPERTIES

- Tensile Strength **0.05 - 0.2 N/mm²**
- Notched Impact Strength **no break Kj/m²**
- Thermal Coefficient of expansion **160 - 200 x 10⁻⁶**
- Max Cont Use Temp **55 - 65 °C**
- Density **0.926 - 0.950 g/cm³**

RESISTANCE TO CHEMICALS

- Dilute Acid ****
- Dilute Alkalis ****
- Oils and Greases ***
- Aliphatic Hydrocarbons ****
- Aromatic Hydrocarbons *
- Halogenated Hydrocarbons *



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Alcohols ****

KEY * poor ** moderate *** good **** very good

CURRENT CASE STUDIES



Teats on feeders moulded in ethylene vinyl acetate. The flexibility is obtained without the use of added plasticisers.



Polymer Zone
(<https://www.bpf.co.uk/polymer-zone/default.aspx>)

How is Plastic Made?
(<https://www.bpf.co.uk/plastipedia/how-is-plastic-made.aspx>)

History of Plastics
(https://www.bpf.co.uk/plastipedia/plastics_history/Default.aspx)

A-Z Additives
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A-Z Processes
(<https://www.bpf.co.uk/plastipedia/processes/Default.aspx>)

Polymer: Thermoplastics
(<http://www.bpf.co.uk/plastipedia/polymers/polymer-thermoplastics.aspx>)

(ABS)
(https://www.bpf.co.uk/plastipedia/polymers/ABS_and_Othe)

Aramids PI Aromatic Polyimide
(https://www.bpf.co.uk/plastipedia/polymers/Aramids_PI_Ar)

Cellulosics CA, CAB, CAP, CN
(<https://www.bpf.co.uk/plastipedia/polymers/Cellulosics.asp>)

Ethylene Vinyl Acetate EVA
(<https://www.bpf.co.uk/plastipedia/polymers/EVA.aspx>)

Expanded Polypropylene (EPP)
(https://www.bpf.co.uk/plastipedia/polymers/Expanded_Poly)

Fluoroplastics PTFE FEP
(<https://www.bpf.co.uk/plastipedia/polymers/Fluoroplastics>)

Nylons (Polyamides) PA
(<https://www.bpf.co.uk/plastipedia/polymers/Polyamides.asj>)

PEEK (tm)
(<https://www.bpf.co.uk/plastipedia/polymers/PEEK.aspx>)

Polyacetals POM
(<https://www.bpf.co.uk/plastipedia/polymers/Polyacetals.aspx>)

Polybutene-1 (PB-1)
(<https://www.bpf.co.uk/plastipedia/polymers/Polybutene1.aspx>)

Polycarbonate PC
(<https://www.bpf.co.uk/plastipedia/polymers/Polycarbonate>)

Polyesters PETP, PBT, PET
(<https://www.bpf.co.uk/plastipedia/polymers/Polyesters.aspx>)

Polyethylene (High Density)
HDPE
(<https://www.bpf.co.uk/plastipedia/polymers/HDPE.aspx>)

Polyethylene (Low Density)
LDPE, LLDPE
(<https://www.bpf.co.uk/plastipedia/polymers/LDPE.aspx>)

Polymethylpentene PMP
(<https://www.bpf.co.uk/plastipedia/polymers/PMP.aspx>)

Polyphenylene Oxide PPO
(<https://www.bpf.co.uk/plastipedia/polymers/PPO.aspx>)

Polyphenylene Sulphide PPS
(<https://www.bpf.co.uk/plastipedia/polymers/PPS.aspx>)

Polypropylene PP
(<https://www.bpf.co.uk/plastipedia/polymers/PP.aspx>)

Polystyrene (High Impact) HIPS
(<https://www.bpf.co.uk/plastipedia/polymers/HIPS.aspx>)

Polyvinyl Chloride PVC
(<https://www.bpf.co.uk/plastipedia/polymers/PVC.aspx>)

Styrene Acrylonitrile (SAN) &
Acrylonitrile Styrene Acrylate (AS)
(<https://www.bpf.co.uk/plastipedia/polymers/SAN.aspx>)

Polyvinyl Alcohol (PVOH)
(<https://www.bpf.co.uk/plastipedia/polymers/polyvinyl-alcohol-pvoh.aspx>)

Polymers: Thermosets
(<https://www.bpf.co.uk/plastipedia/polymers/Default.aspx>)

Polymer: Bio-Based/Degradables
(<https://www.bpf.co.uk/plastipedia/polymers/polymer-bio-based-degradables.aspx>)

Polyphenylsulfone
(<https://www.bpf.co.uk/plastipedia/polymers/polyphenylsulfone>)

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Testing Techniques

<https://www.bpf.co.uk/plastipedia/testing/Default.aspx>

Applications (Plastics in Use)

<https://www.bpf.co.uk/plastipedia/applications/Default.aspx>

Polymer Prices

https://www.bpf.co.uk/plastipedia/Polymer_Prices.aspx

Recycling & Sustainability

https://www.bpf.co.uk/Sustainability/Plastics_Recycling.aspx

Energy

<https://www.bpf.co.uk/plastipedia/energy/energy.aspx>

Standards

<https://www.bpf.co.uk/standards/Default.aspx>

BPF Literature & Guides

<https://www.bpf.co.uk/suppliers/bpf-literature-guides.aspx>

Plastic FAQs

<https://www.bpf.co.uk/plastipedia/faqs/home.aspx>



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