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Flexible PVC is a versatile thermoplastic that combines durability with pliability. Known for its resistance to abrasion, moisture, and many chemicals, it is widely used in sealing, cushioning, and protective applications.

Flexible PVC

What is Flexible PVC?

Flexible PVC is made by adding plasticizers to standard PVC resin, which softens the material and enhances its flexibility. This allows it to bend, compress, and stretch without cracking, making it ideal for parts that need to move or seal.

Common Applications

Flexible PVC is commonly used for:

- Seals and gaskets
- Tubing and hoses
- Cable insulation and sheathing
- Protective edging and coverings
- Flexible construction profiles

Benefits

1. Excellent flexibility with strong durability
2. Resistant to abrasion, chemicals, and moisture
3. Good electrical insulation properties
4. Cost-effective compared to many elastomers
5. Available in transparent or colorable grades

Limitations

1. Can harden over time depending on plasticizer choice
2. Limited heat resistance compared to rigid polymers
3. Not ideal for long-term UV exposure without additives
4. Not inherently flame resistant