HDPE Butt Fusion Fittings

Injection-Moulded PE100 Elbows, Tees, Reducers, End Caps

Product Overview

HDPE butt-fusion fittings for joining PE100 pipe into a monolithic, leak-tight network. Injection-moulded from the same PE100 resin grade as the matching pipe, so the fused joint is stronger than the parent pipe. Available in the full ISO 4427 / ASTM F714 dimensional schedule across DN 20 – DN 1200.

Technical Specifications

Parameter	Specification
Material grade	PE100 (matches pipe SDR)
Fitting types	90°/45°/22.5° elbow · Equal tee · Reducing tee · End cap · Reducer · Cross
Diameter range	DN 20 – DN 1200 mm
SDR range	SDR 7.4 – SDR 26 (PN 6 – PN 25)
Compatibility	Compatible with all major PE100 pipe brands worldwide
Joint strength	Stronger than parent pipe (per ISO 12176-1)
Standards	ISO 4427-3 · EN 12201-3 · ASTM D3261 · WRAS · NSF 61
Custom OEM	Available — minimum lot per SKU 500 pcs

Typical Applications

- Water-main fittings (potable distribution and transmission)
- Gas distribution fittings (electrofusion preferred for gas)
- Mining-slurry pipeline fittings
- Fire-protection main fittings
- Industrial process-pipe fittings

Standards & Certifications

ISO 4427-3	EN 12201-3	ASTM D3261	WRAS	NSF/ANSI 61	ISO 9001

Why Primepoly

Real factory, not a trading company. Primepoly operates a fully-owned PE / PVC pipe and fitting factory in Zhengzhou, Henan — ISO 9001 quality plan, in-house QC lab, full hydrostatic test and material qualification on every production batch.

Documentation that clears consultant review on first submission. Every shipment carries the mill certificate, batch resin certificate, third-party inspection report (SGS / BV available) and the destination-specific compliance documents (WRAS / NSF 61 / SASO / PVOC / etc.).

Engineering support on every order. Our application engineers respond to technical queries within one working day. For distributor and project customers we send installer training to site for the first shipment.

Request a quotation

Send DN / SDR / length / destination port to **sales@primepolypipes.com** — engineering team responds within one working day with FOB or CIF pricing.