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Part Name: Molded HDPE Butt Fusion Branch Saddle  
Part Number: 525a-xxxx



### **Butt Fusion Branch Saddle**

Poly-Cam HDPE Molded Branch Saddles are made in the USA. They are made from bimodal polyethylene copolymer resin PE 4710 (445574C).

### **Design**

The Poly-Cam branch saddle is designed with strength in mind. It has a lower taper at the base of the outlet to resist sheering. The branch saddle has a wider round base for more surface area for fusing.

### **System Performance**

The transition fitting is designed to handle the pressure rating of the HDPE pipe with a 2:1 safety factor at 73.40 degrees Fahrenheit with a minimum 50-year design life.

### **Quality Assurance**

The transition fitting shall be manufactured by Poly-Cam, Inc. Poly-Cam, Inc. shall provide quality assurance with regards to proper installation, compatibility, performance, and acceptance.

### **Installation**

**HDPE pipe end:** Install transition fitting to comply with the pipe manufacturer's recommended procedures. All field welds shall be completed per Plastic Pipe Institute's welding procedure for butt fusion.

## **Material**

### **High-Density Polyethylene: HDPE pipe**

- Meets ASTM D-3350 with minimum cell classification values of 345464C (PE 3408), PE445574C (PE 4710)
- Meets ASTM F714.
- Density shall be no less than 0.955 g/cm as referenced in ASTM D1505
- Melt index no greater than 0.15 g/10 minutes when tested per ASTM D 1238
- Tensile Strength at Yield -tensile shall be 3,200 psi to less than 3,500 psi as referenced in ASTM D638
- ESCR-Environmental Stress Crack Resistance shall be over 5,000 hours with zero failures when tested per ASTM D 1693-Condition C
- All pipe meets ASTM 3035.
- All certifications will be submitted upon request.

## **Warranty**

The warranty period is one year after the date of substantial completion of installation.

# Series 525a Molded HDPE Butt Fusion Branch Saddle

Nominal Size (In.)	Material Specification	Outlet Nominal Diameter <b>A</b>	Nominal Socket Outlet Diameter <b>A2</b>	HDPE Outlet Length <b>B</b>	HDPE Base Diameter <b>C</b>	HDPE Inside Diameter <b>D</b>	Radius Cut <b>R</b>
0.75	Polyethylene PE4710	1.050	0.840	2.750	1.750	0.816	>1.660
1	Polyethylene PE4710	1.315	1.050	2.700	1.970	0.900	>1.660
1.25	Polyethylene PE4710	1.660	1.315	3.000	2.050	1.066	>1.900
1.5	Polyethylene PE4710	1.900	1.660	3.250	3.250	1.453	>2.375
2	Polyethylene PE4710	2.375	1.900	4.000	3.325	1.815	>3.500

