



**ZHEJIANG XINDA PLASTIC PIPE CO.,LTD.**

**QUALITY CERTIFICATE**

**ELECTROFUSION FITTINGS**

Product + Dimensions Elbow 90° 25mm

Batch No. 140901

Production Date 2014-09-15

| No. | Test Items                                | Requirements   | Results                 |
|-----|---|--|-------------------------|
| 1   | Appearance                                | The internal and external surfaces of the fitting shall be smooth, clean and free from scoring, cavities and other surface defects to an extent that would prevent conformity of the fitting to this standard. | Pass                    |
| 2   | Melt mass-flow rate (190°C, 5Kg), g/10min | Change of MFR by processing $\pm 20\%$   | Pass                    |
| 3   | Oxidation induction time, min(200°C)      | $\geq 20$  | Pass                    |
| 4   | Decohesive resistance                     | Length of initiation rupture $\leq$ Length of fusion zone/3 in brittle failure   | Ductile failure<br>Pass |
| 5   | Hydrostatic strength                      | 1) 20°C, hoop stress: 12.4Mpa, Duration: 100h  | Pass                    |
|     |   | 3) 80°C, hoop stress: 5.4Mpa, Duration: 165h   | Pass                    |
|     |   | 2) 80°C, hoop stress: 5.0Mpa, Duration: 1000h  | Pass                    |

Este certificado ha sido impreso desde el sitio web [www.ingemar.com.ar](http://www.ingemar.com.ar).  
Copia fiel del original.



INGEMAR  
Administración  
Tel.: 0351 - 4525213

**Raw material**

| Test name                | Standard   | Conditions | Reference Values           | Results |
|--------------------------|------------|------------|----------------------------|---------|
| Density                  | ISO1183    | 23°C       | $\geq 0.930 \text{Kg/m}^3$ | √ Pass  |
| Melt flow rate           | ISO1133    | 190°C, 5KG | 0.20-1.0 g/10min           | √ Pass  |
| Oxidation induction time | ISOTR10837 | 210°C      | >20min                     | √ Pass  |

- Certifying that the above-mentioned product meets required quality levels in the standard EN1555-3 and EN12201-3 "Plastics piping systems for water supply and the supply of gaseous fuels-Polyethylene(PE)-Part 3:Fittings" .

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