



# Eurothem

## PPR Pipes & Fittings

Made in Italy



EUROTHEM PPR PIPES & FITTINGS MADE IN ITALY  
 MANUFACTURED BY : SANIFIRST ITALY  
 SINCE LAST 15 YEARS IN WORLD WIDE MARKET  
 WITH FULL RANGE OF PIPES & FITTINGS IN GERMAN STANDARD

### Standards

Eurothem PP-R system is produced according to the following German Standards:

|           |  |
|-----------|--|
| DIN 1988  | Drinking Water Supply Systems                                |
| DIN 8077  | Polypropylene Pipes: Dimensions                              |
| DIN 8078  | Polypropylene Pipes: Testing Methods                         |
| DIN 16962 | Polypropylene Pipes: Quality Control and Connections         |
| DIN 16928 | Thermostatic Pipes: Pipe Connections                         |
| DIN 4109  | Sound insulation in Building Constructions                   |
| DIN 8076  | Metal Threaded Joints Testing Method                         |
| DIN 2999  | Rules for Fittings with Threaded Metallic Inserts            |
| DVS 2206  | Regulations for the Welding of Thermostatic Material         |
| DVS 207   | Welding of Thermoplastic Materials by means of Heating Tools |

### polypropylene material properties

| Properties                      | Testingmethod | Typicalvalue            |
|---------------------------------|---------------|-------------------------|
| Viscosity                       | ISO1191       | 420 cm <sup>3</sup> /g  |
| Melt flow index                 |               |                         |
| MFR 190°C/5kg                   | ISO/R1133     | 0.55 g/10min            |
| MFR 230°C/5kg                   |               | 1.3 g/10min             |
| Specific Gravity(23°C)          | ISO1183       | 0.905 g/cm <sup>3</sup> |
| Thermal Conductivity(20°C)      | R3146         | 0.17 W/m.k              |
| Rockwell hardness               | R2039/2       | 93                      |
| Coefficient of linear expansion | ASTM D696     | 0.15 mm/m°C             |
| Vicat Softening Point(9.8N)     | ISO/R360      | 135 °C                  |
| HDT 0.45MPa                     | ISO/R75       | 80 °C                   |
| Modulus of Elasticity           | ISO527/1+2    | 850 MPa                 |
| Yield point(50mm/min)           | R527          | 25 MPa                  |
| Elongation at yield             | R527          | 14%                     |
| Tensile strength                | R527          | 29.6 MPa                |
| Breaking point under Stress     | R527          | >700%                   |



90 Degree Male Threaded Elbow



90 Degree Female Threaded Elbow



UNION



GATE VALVE



90 deg. MALE ELBOW WITH WALL BRACKET



PN 20 PPR PIPES



SOCKETS



TEE



90 deg. ELBOW