PPR Fittings DIN 16962

Elbow 90°
20, 25, 32, 40, 50, 63
75, 110

Equal Tee
20, 25, 32, 40, 50, 63
75, 110

Socket
20, 25, 32, 40, 50, 63
75, 110

End Cap
20, 25, 32, 40, 50, 63
75

Cross Over
20, 25, 32

Reduced Socket
25X20, 32X20, 32X25, 40X25, 40X32, 50X25, 50X32, 50X40, 63X25, 63X32, 63X40, 63X50, 75X32, 75X40, 75X50, 75X63

Elbow 45°
20, 25, 32, 40, 50, 63
110

Elbow Adapter
Female Threads

Tee Adapter
Female Threads

Female Adapter

Tee Reducing
25X20, 32X20, 32X25, 40X25, 40X32, 50X25, 50X32, 50X40, 63X25, 63X32, 63X50

Male Adapter

Female Adapter

Union
Plastic Threads
20, 25, 32

Union Adapter
Male Threads

Union Adapter
Female Threads
20X1/2", 25X1/2", 32X1", 40X11/4", 50X11/2", 63X2"

Elbow Adapter
Male Threads
25X1/2", 25X3/4", 32X1"

Ball Valve
20 to 32

Pipe Cutter
20 to 63

Pipe Cutter
20 to 63, 60 to 110

Welding Device
20 to 63

For Sales Inquires – Contact:
Tel : (+965) 1844555 – Fax : (+965) 24815392
Email : sales@nicbm.com - Web site : www.nicbm.com
PPR Piping System For Hot & Cold Water

Polypropylene Random copolymer (PPR) system “NIC PPR” is ideal for all potable water piping requirements in typical residential (single and multi-story), motel/hotel, mobile home, site offices, manufactured housing, Green houses, farms, light commercial and institutional structures. Typical uses of PPR pipes are as follows.

1. Hot and cold water pressure pipes.
2. Drinking water pressure pipes. (potable water)
3. Heating, air-conditioning & chilled water pressure pipes.
4. Irrigation pipes for green houses garden and farms.
5. Compressed air conveying pipes.
6. Industrial Fluid conveying pipes.

Properties of PPR

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>0.91</td>
<td>g/cm³</td>
<td>DIN 53479</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>800</td>
<td>N/mm²</td>
<td>DIN 53457</td>
</tr>
<tr>
<td>Melting temperature</td>
<td>140 to 150</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Co-efficient of thermal expansion</td>
<td>1.5X10⁻⁴</td>
<td>K⁻¹</td>
<td>DIN 53752</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>0.23</td>
<td>W/K·m⁻¹</td>
<td>DIN 52612-1</td>
</tr>
</tbody>
</table>

Advantages of PPR

1. Provides high resistance to chemicals, acids and other materials like lime and cement with which pipes may come into contact.
2. Poor electrical conductor, so pipes are not damaged by stray currents.
3. Excellent noise damping property, which is useful in places like hotels and hospitals.
4. Low thermal conductivity prevents heat loss when used in heating or cooling system.
5. Non toxic and complies with relevant international standards to use with drinking water.
6. Very smooth inner surface prevents pressure loss and also prevents sedimentary crusting inside pipe.
7. Light weight so easy to install and welding gives perfect leak proof joint.

Quality Standards

Pipes as per DIN 8077 & DIN 8078
Fittings as per DIN 16962
Quality System as per BS EN ISO 9001 : 2008

To ensure long service life of “NIC PPR” pipes, it is necessary to refer following graph which is based on DIN 8077 : 1999

<table>
<thead>
<tr>
<th>Temperature &amp; Working Pressure</th>
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<tr>
<td>≤20 °C 24,3 Bar</td>
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</tr>
<tr>
<td>≤40 °C 17,8 Bar</td>
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</tr>
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<td>≤60 °C 12,7 Bar</td>
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</tr>
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<td>25</td>
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<tr>
<td>≤95 °C 4,2 Bar</td>
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PPR Pipes - PN 20 as per DIN 8077 / 78

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<tbody>
<tr>
<td>≤20 °C 31,4 Bar</td>
<td>100</td>
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<tr>
<td>≤40 °C 22,4 Bar</td>
<td>75</td>
</tr>
<tr>
<td>≤60 °C 16,0 Bar</td>
<td>50</td>
</tr>
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<td>25</td>
</tr>
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<td>0</td>
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</table>

PPR Pipes - PN 25 as per DIN 8077 / 78

For more information, please contact:  
NIC Pipework Ltd.  
Tel: 0161 224 7020  
Email: info@nicpipework.com  
Website: www.nicpipework.com
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“NIC PPR”
WATER PIPING SYSTEM
For Hot & Cold water