

## Ineos TUB 121NTW HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

TUB121 NTW is a natural high density bimodal polyethylene copolymer designed for extrusion of large diameter, thick wall piping for potable water, industrial and mining applications. When blended with an approved black concentrate, the resulting formulation (â€œTUB 121â€) is listed by the Plastics Pipe Institute (in PPI TR-4, as PE4710 and PE100) and is certified to ANSI/NSF Standard 14. Property data for typical compression molded samples.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-TUB-121NTW-HDPE.php](http://www.lookpolymers.com/polymer_ineos-TUB-121NTW-HDPE.php)

| Physical Properties                   | Metric                                                | English                                               | Comments                |
|---------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------|
| Density                               | 0.949 g/cc                                            | 0.0343 lb/in <sup>3</sup>                             | ASTM D4883              |
| Environmental Stress Crack Resistance | >= 5000 hour                                          | >= 5000 hour                                          | Condition C; ASTM D1693 |
| Oxidative Induction Time (OIT)        | >= 20 min<br>@Temperature 210 Â°C                     | >= 20 min<br>@Temperature 410 Â°F                     | ASTM D3895              |
| High Load Melt Index                  | 8.0 g/10 min<br>@Load 21.6 kg,<br>Temperature 190 Â°C | 8.0 g/10 min<br>@Load 47.6 lb,<br>Temperature 374 Â°F | ASTM D1238              |

| Mechanical Properties     | Metric                               | English                           | Comments                      |
|---------------------------|--------------------------------------|-----------------------------------|-------------------------------|
| PENT                      | >= 10000 hour                        | >= 10000 hour                     | Notched Tensile; ASTM F1473   |
| Hardness, Shore D         | 64                                   | 64                                | ASTM D2240                    |
| Tensile Strength at Break | 30.3 MPa                             | 4400 psi                          | 2 in/min; ASTM D638           |
| Tensile Strength, Yield   | 24.1 MPa                             | 3500 psi                          | 2 in/min; ASTM D638           |
| Elongation at Break       | >= 600 %                             | >= 600 %                          | 2 in/min; ASTM D638           |
| Elongation at Yield       | 10 %                                 | 10 %                              | 2 in/min; ASTM D638           |
| Flexural Modulus          | 0.896 GPa                            | 130 ksi                           | 2% Secant-Method 1; ASTM D790 |
| Izod Impact, Notched      | 6.41 J/cm                            | 12.0 ft-lb/in                     | ASTM D256                     |
| Hydrostatic Design Basis  | 6.89 MPa                             | 1000 psi                          | at 60Â°C; ASTM D2837          |
|                           | 11.0 MPa<br>@Temperature 23.0<br>Â°C | 1600 psi<br>@Temperature 73.4 Â°F | ASTM D2837                    |

| Thermal Properties        | Metric      | English     | Comments                            |
|---------------------------|-------------|-------------|-------------------------------------|
| Vicat Softening Point     | 126 Â°C     | 259 Â°F     | ASTM D1525                          |
| Brittleness Temperature   | <= -118 Â°C | <= -180 Â°F | ASTM D746                           |
| Decomposition Temperature | >= 240 Â°C  | >= 464 Â°F  | Thermal Stability; ASTM D2513/D3350 |

| Descriptive Properties | Value          | Comments                                 |
|------------------------|----------------|------------------------------------------|
| Cell Classification    | 445574C        | Blended with approved black concentrate. |
| Process                | Pipe Extrusion |                                          |
| Region                 | US & Canada    | Bamberger Polymers Distribution          |

## Contact Songhan Plastic Technology Co.,Ltd.

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