



# Eltex® TUB 433-NA00

## Product Technical Information

Polypropylene – Impact Copolymer

**Eltex® TUB 433-NA00** is a low melt flow rate, long term heat stabilized, high impact copolymer for pipe, blow moulding and sheet extrusion applications. It offers a very good balance stiffness - impact strength (even at low temperature) and excellent processability.

## Applications

- Non-pressure pipes and fittings (for drainage and sewerage, soil & waste,...)
- Sheet extrusion
- Blow moulding

## Benefits and Features

- High impact resistance
- Good rigidity
- Excellent melt strength
- Long term heat stability
- Excellent processability (for solid and structured wall pipes extrusion)

| Properties                                     |              | Test Methods | Values | Units             |
|--|--------------|--------------|--------|-------------------|
| <b>Physical</b>                                |              |              |        |                   |
| Density  |              | ISO 1183     | 905    | kg/m <sup>3</sup> |
| Melt Flow Rate                                 | 230°C/2.16kg | ISO 1133     | 0.3    | g/10min           |
| <b>Mechanical</b>                              |              |              |        |                   |
| Flexural Modulus <sup>(1)</sup>                | @ 23°C       | ISO 178      | 1500   | MPa               |
| Calculated E-Modulus <sup>(2)</sup>            |              |              | 1500   | MPa               |
| Tensile Test (23°C, 50 mm/min) <sup>(3)</sup>  |              |              |        |                   |
| Tensile Stress                                 | @Yield       | ISO 527-1,-2 | 28     | MPa               |
| Tensile Strain                                 | @Yield       | ISO 527-1,-2 | 9      | %                 |
| Charpy Impact Strength, Notched <sup>(3)</sup> |              |              |        |                   |
|  | @ 23°C       | ISO 179/1eA  | > 50   | kJ/m <sup>2</sup> |
|  | @ 0°C        | ISO 179/1eA  | 18     | kJ/m <sup>2</sup> |
|  | @ -20°C      | ISO 179/1eA  | 7      | kJ/m <sup>2</sup> |

<sup>(1)</sup> Measured on 4 mm thick compression moulded specimens (cooling rate = -15°C/min)

<sup>(2)</sup> Calculated from ring stiffness measurements carried out on 110 mm solid wall pipes

<sup>(3)</sup> Measured on 4 mm thick injection moulded specimens



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## Thermal

|                                |           |             |      |     |
|--------------------------------|-----------|-------------|------|-----|
| Melting Point                  |           | ASTM D 3417 | 165  | °C  |
| Vicat Softening Temperature    | @10 N     | ISO 306/A   | 155  | °C  |
| HDT                            | @0.45 MPa | ISO 75/B    | 95   | °C  |
| Oxidation Induction Time (OIT) | @200°C    | EN 728      | > 30 | min |

- Data should not be used for specification work