Ultradur® PBT

More than 20 years of dedication to the fiber optic industry

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Engineering Thermoplastics for High Performance Secondary Fiber Optic Jacketing

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BASF Product Portfolio for Fiber Optic Cable Jacketing

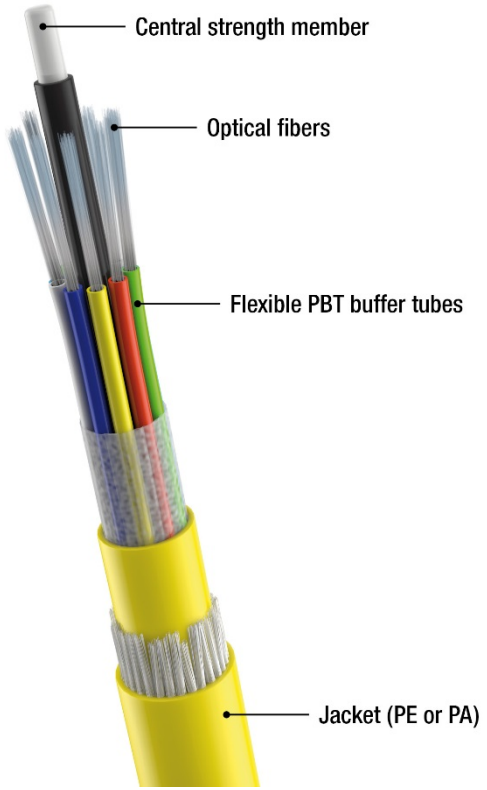
- **Ultradur B6550 L**

  Modified with a lubricant.
  Lubricant provides an excellent feeding behavior on all kind of extruders.

- **Ultradur® B 6550 LN**

  Modified with a lubricant and a nucleating agent.
  This material has also an excellent feeding behavior and in addition the nucleating agent provides a faster speed of crystallization. Higher crystallinity will cause higher stiffness and a more opaque color of the tubes.

Material Properties of Ultradur® B 6550 LN for Loose Buffer Tubes



- Excellent feeding behavior
- Easy processability with high melt stability
- Excellent chemical resistance
- Low coefficient of thermal expansion
- Very low water absorption
- Very good dimensional stability
- High stiffness and hardness

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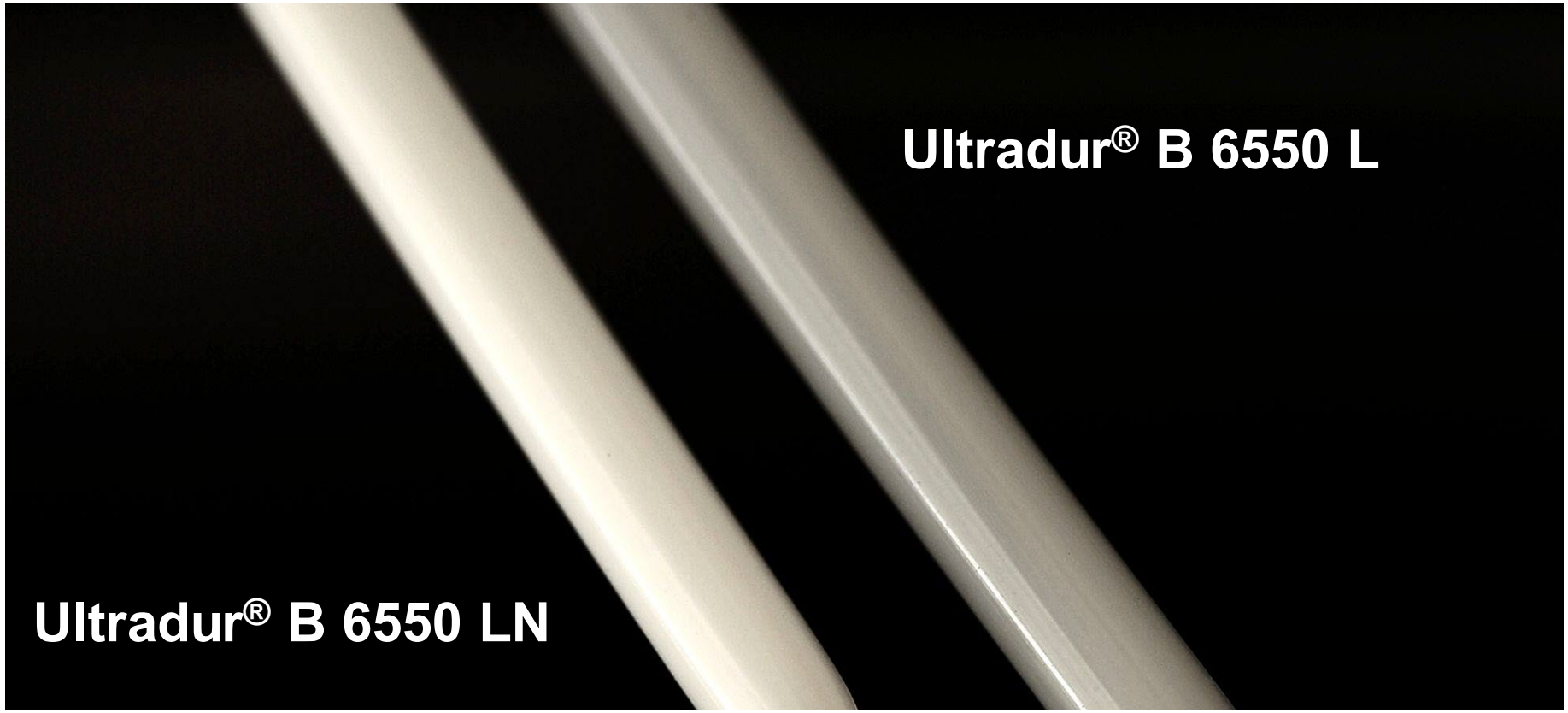
Effect of Different Crystalline Structures

Tubes extruded with Ultradur® B 6550 LN and B 6550 L under same processing conditions



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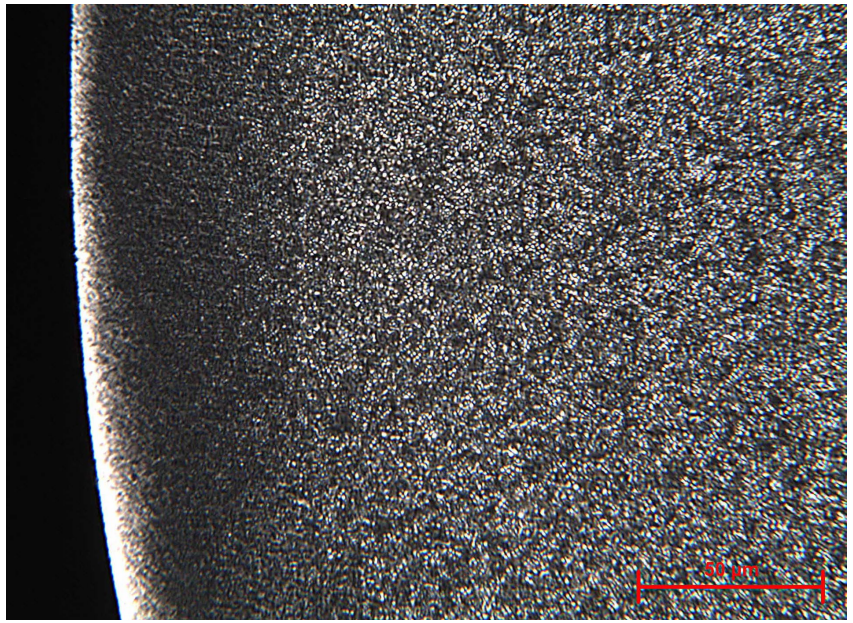
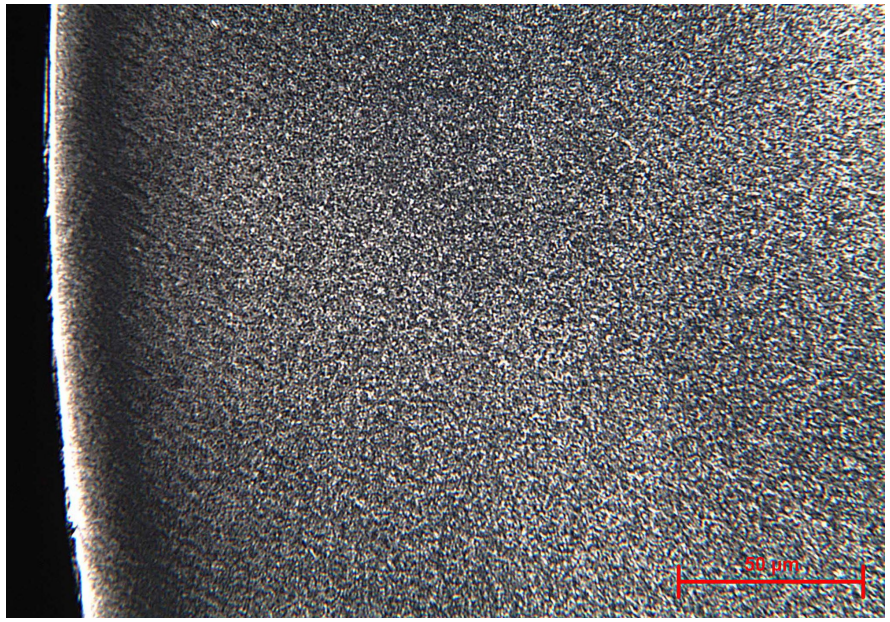
Crystalline Structures

Ultradur® B 6550 L



tube D = 2.1 / 1.5 mm

Ultradur® B 6550 LN



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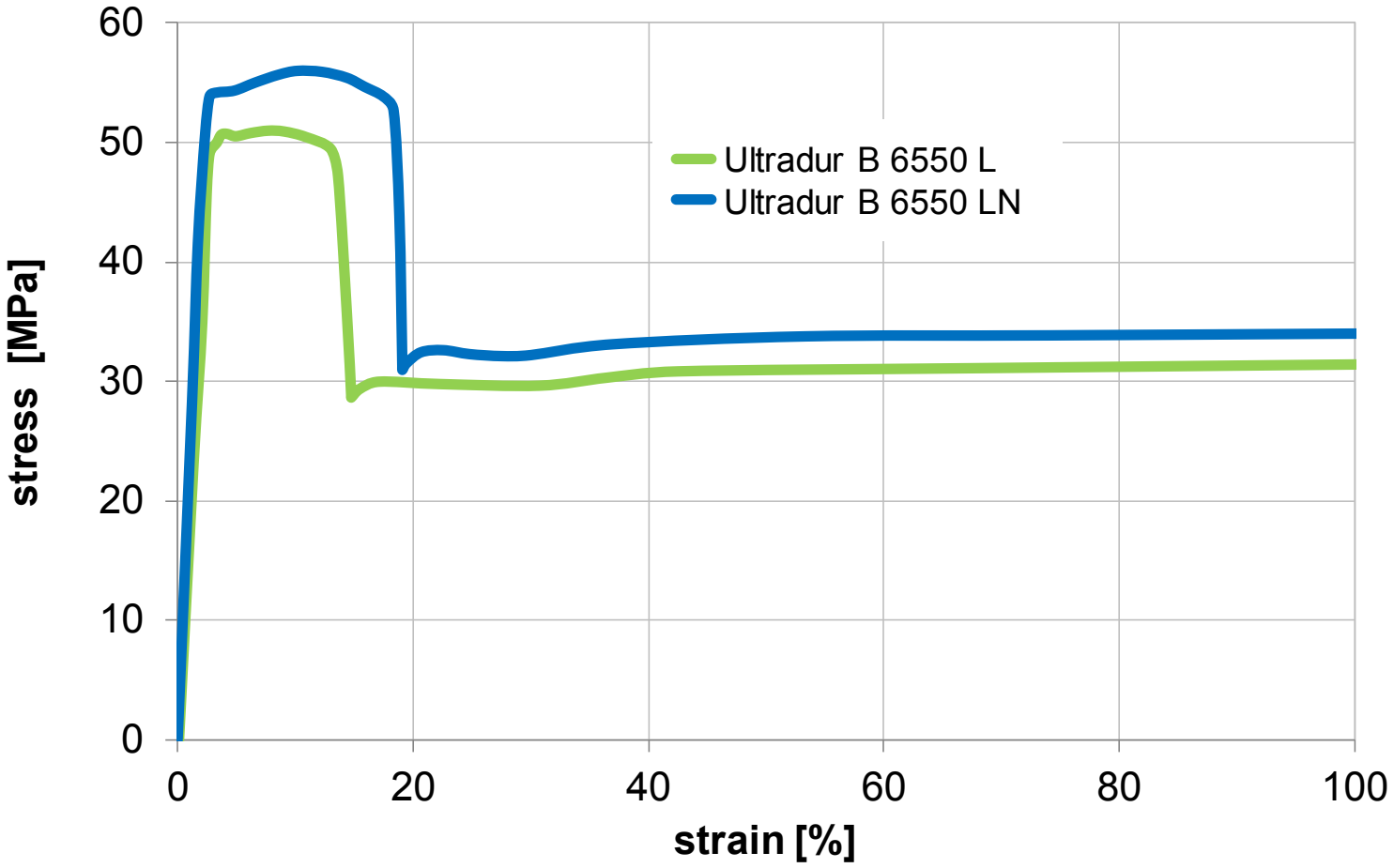
Mechanical Performance
Ultradur® B 6550 LN and Ultradur® B 6550 L



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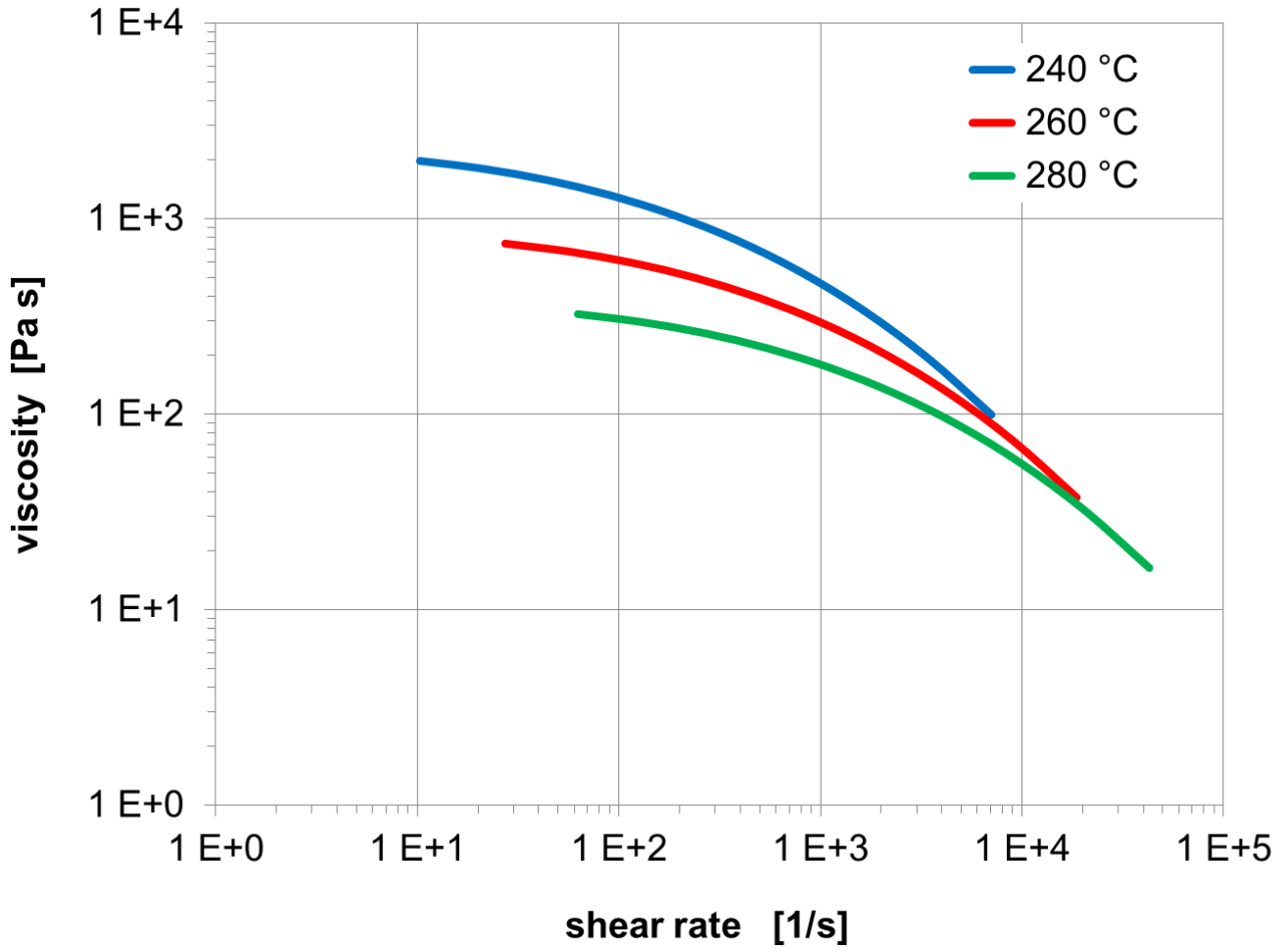
Viscosity Function
Ultradur® B 6550 LN and Ultradur® B 6550 L



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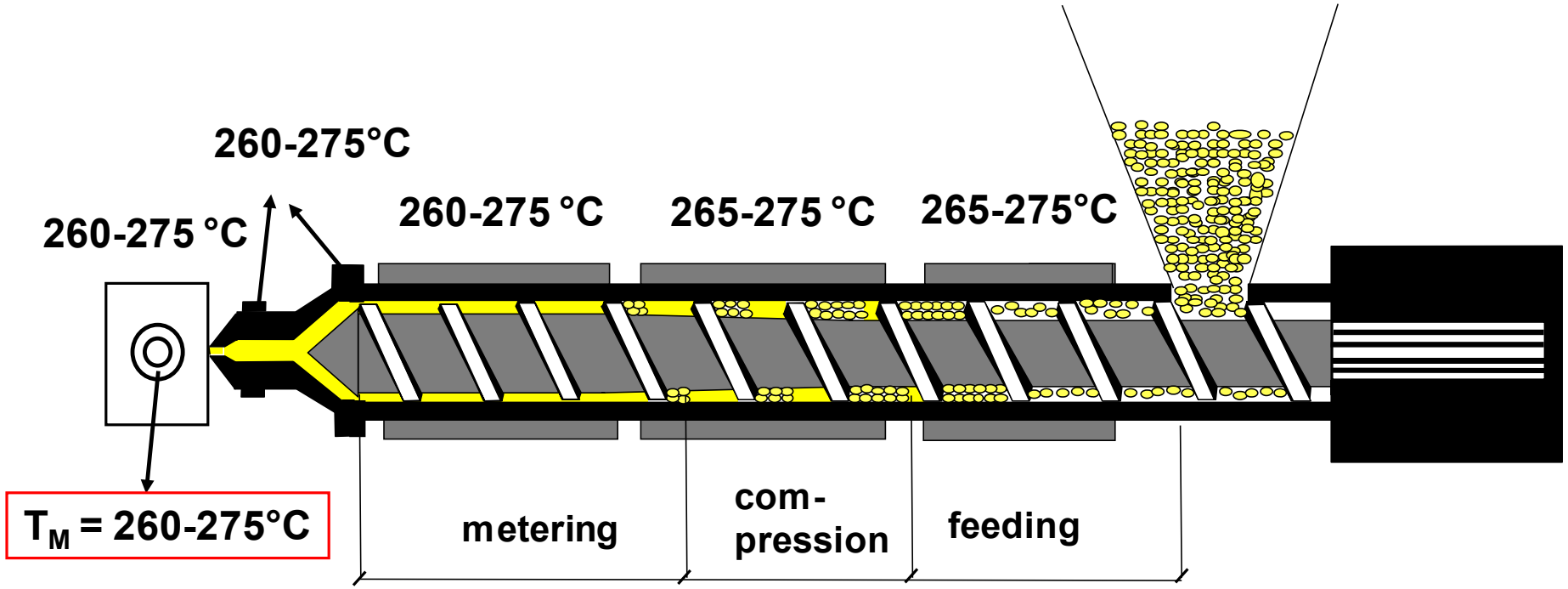
Temperature profile for Ultradur® B 6550 LN



Explanatory note:
for line speeds >= 250 m/min
the higher temperature profile is recommended to achieve higher values for elongation @ break

High feeding zone temperature

- excellent feeding behavior
- very low material degradation

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Disclaimer

The information and data given here are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.

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