



## TECHNICAL DATA SHEET

**Product Name** : AKRETAN TP-9700N01  
**Product Description** : TPU Ester, Opaque Color, High Abrasion Resistance

| Properties                   | Test Method    | Test Conditions     | Unit               | Value |
|------------------------------|----------------|---------------------|--------------------|-------|
| Hardness                     | ASTM D 2240    | 3 second            | Shore A/D          | 97 A  |
| Specific Gravity             | ASTM D 792     | 23°C                | gr/cm <sup>3</sup> | 1.23  |
| Abrasion Resistance          | ISO 4649       | 23°C                | mm <sup>3</sup>    | 18    |
| Tensile Strenght             | ASTM D 412     | 200 mm/min.         | Mpa                | 26    |
| Modulus 100%                 | ASTM D 412     | 200 mm/min.         | Mpa                | 21    |
| Modulus 300%                 | ASTM D 412     | 200 mm/min.         | Mpa                | 42    |
| Elongation at Break          | ASTM D 412     | 200 mm/min.         | %                  | 400   |
| Tear Strenght                | ASTM D 624     | 200 mm/min.         | N/mm               | 50    |
| Compression Set              | ASTM D 395     | 24 h:70°C           | %                  | 46    |
| Compression Set              | ASTM D 395     | 72 h:23°C           | %                  | 24    |
| Glass Transition Temperature | DSC            | -                   | °C                 | -     |
| Melt Flow Index              | ASTM D 1238    | 200°C / 10 kg.      | gr/10 min          | -     |
| Melting Point                | -              | -                   | °C                 | 170   |
| Flammability Classification  | UL94           | 1,6 mm. Thickness   | Class              | HB    |
| Antistatic                   | DIN VDE 0413/1 | 500V / 4,3 kg. load | Mohm               | -     |

\* The recommended drying temperatures are between 80°C and 110°C, with drying times of 1 to 3 hours.

*All mentioned information in this technical data sheet present current knowledge and experience of AKAY PLASTIK. The data may not be valid when this product is used in combination with other materials such as pigments or additives which may cause significant variations in data values. Please note that the data are given for dry as molded values as related to the mentioned material only. Naturally, these data do not guarantee certain values since may vary on customer's processing conditions, so they are provided for reference purposes only and should not be used alone to create specification limits and design basis. It is strongly recommended for customers to test the product under their own processing conditions and test facilities to determine the suitability for the required application and use.*

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