



# TECHNICAL DATA SHEET

**Product Name** : A-22GFN01  
**Product Description** : ABS with %22 glass fiber

| Physical Properties                            |                  | Test Method    | Unit                 | Value   |
|--|------------------|----------------|----------------------|---------|
| Melt Flow Index (MFI)                          | 220 °C / 10 Kg.  | ASTM D 1238    | gr/10 min.           | 9.3     |
| Ash Content                                    |                  | ISO 3451       | %                    | 22      |
| Colour Value                                   |                  | -              | DE                   |         |
| Gloss / 60 °                                   |                  | ASTM D 523     | -                    |         |
| Thermal Properties                             |                  | Test Method    | Unit                 | De er   |
| Vicat Softening Temp. 50 N-50 °C/h             |                  | ASTM D 1525    | °C                   | 105.8   |
| Heat Deflection Temp. (HDT) 120 °C / h-1.8 Mpa |                  | ASTM D 648     | °C                   |         |
| Melting Point                                  |                  | -              | °C                   | 110-120 |
| Mechanical Properties                          |                  | Test Method    | Unit                 | De er   |
| Tensile Elongation At Yield / 5mm/min.         |                  | ASTM D 638     | %                    | 2.2     |
| Tensile Strength At Yield                      |                  | ASTM D 638     | MPa                  | 70.8    |
| Tensile Strength At Break                      |                  | ASTM D 638 M   | MPa                  | 55.6    |
| Tensile Elongation At Break                    |                  | ASTM D 638 M   | %                    | 9.5     |
| Hardness (SHORE D)                             |                  | ASTM D 2240    | 3 Second             | 83      |
| Hardness (SHORE A)                             |                  | ASTM D 2240    | 3 Second             |         |
| Izod Impact Strength, Notched                  |                  | ASTM D 256     | KJ /m <sup>2</sup>   | 9.8     |
| Charpy Impact Strength, Notched                |                  | ASTM D 256     | KJ /m <sup>2</sup>   |         |
| Abrasion Resistance                            |                  | ISO 4649       | mm <sup>3</sup>      |         |
| Flammability                                   |                  | Test Method    | Unit                 | De er   |
| Flammability Classification                    | 3,2 mm thickness | UL 94          | Class                | HB      |
| Glow Wire Flammability Index                   | ... mm thickness | IEC 60695-2-12 | °C                   |         |
| Glow Wire Ignition Test                        | ... mm thickness | IEC 60695-2-13 | °C                   |         |
| Other Properties                               |                  | Test Method    | Unit                 | De er   |
| Specific Gravity                               |                  | ASTM D 792     | gr / cm <sup>3</sup> | 1.18    |
| Moisture Content                               |                  | ISO 15512      | %                    |         |
| Molding Shrinkage (+ 23 °C)                    |                  | ISO 2577       | %                    |         |

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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