



## ABG FILAMENT FLEX TDS

### PHYSICAL, MECHANICAL AND THERMAL PROPERTIES

| Properties                            | Test Condition            | Test Method | Unit                 | Typical Value |
|---------------------------------------|---------------------------|-------------|----------------------|---------------|
| Specific Gravity                      |                           | ASTM D792   |                      | 1,21          |
| Molding Shrinkage                     |                           | ASTM D955   | %                    | 0,5-0,6       |
| Melt Flow Rate                        | 220 °C/10 Kg              | ASTM D1238  | g/10 min.            | 9             |
| Tensile Strength                      | @3,2mm Yield<br>50mm/dak. | ASTM D638   | kg/cm <sup>2</sup>   | 490           |
| Tensile Elongation                    | @3,2mm Break<br>50mm/min. | ASTM D638   | %                    | 60            |
| Tensile Modulus                       | @3,2 mm<br>1mm/min.       | ASTM D638   | kg/cm <sup>2</sup>   | 93,000        |
| Flexural Strength                     | @3,2mm<br>15mm/min.       | ASTM D790   | kg/cm <sup>2</sup>   | 450           |
| Flexural Modulus                      | @3,2mm<br>15mm/min.       | ASTM D790   | kg/cm <sup>2</sup>   | 73,000        |
| Izod Impact Strength<br>6,4mm Notched | 23°C<br>-30°C             | ASTM D256   | kg·cm/cm<br>kg·cm/cm | 36<br>20      |
| Izod Impact Strength<br>3,2mm Notched | 23°C<br>-30°C             | ASTM D256   | kg·cm/cm<br>kg·cm/cm | 36<br>20      |
| Hardness                              | Shore Scale               | ASTM D2240  |                      | 90 A          |
| Vicat Softening Temperature           | 5kg, 50°C/h               | ASTM D1525  | °C                   | 68            |