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| Product Information | SP10M <sub>2</sub> 30400BM1 | <br><b>Sam Polymer Bonyan</b> |
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### Product Description

SP10M<sub>2</sub>30400BM1 is a black Polypropylene reinforced by 30% Talc.

| Property                          | Test Method (ASTM) | Test Condition             | Value       | Unit              |
|-----------------------------------|--------------------|----------------------------|-------------|-------------------|
| <b>PHYSICAL</b>                   |                    |                            |             |                   |
| Density                           | D792               | 23°C                       | <b>1.15</b> | g/cm <sup>3</sup> |
| Melt Flow Rate                    | D1238              | 230°C, 2.16 kg             | <b>10</b>   | g/10min           |
| Mold Shrinkage                    | D955               | In Flow, (2 mm, 60 MPa)    | 0.8         | %                 |
|                                   |                    | Cross Flow, (2 mm, 60 MPa) | 1.1         | %                 |
| <b>MECHANICAL</b>                 |                    |                            |             |                   |
| Tensile Strength, Yield           | D638               | 23°C, Speed 5 mm/min       | <b>21</b>   | MPa               |
| Tensile Elongation, Yield         | D638               | 23°C, Speed 5 mm/min       | <b>5.2</b>  | %                 |
| Flexural Strength                 | D790               | 23°C                       | <b>58</b>   | MPa               |
| Flexural Modulus                  | D790               | 23°C                       | <b>2910</b> | MPa               |
| Izod Impact Strength              | D256               | notched, 23°C              | <b>6</b>    | KJ/m <sup>2</sup> |
| <b>THERMAL</b>                    |                    |                            |             |                   |
| Vicat Softening Temperature       | D1525              | 50 N, heating rate 50 °C/h | <b>151</b>  | °C                |
| Heat Deflection Temperature (HDT) | D648               | 0.45 Mpa                   | <b>135</b>  | °C                |
|                                   |                    | 1.80 Mpa                   | <b>71</b>   | °C                |

### Processing Guidelines

|                  |                    |                               |
|------------------|--------------------|-------------------------------|
| <b>Predrying</b> | Drying Time: 2-4 h | Drying Temperature: 80-100 °C |
|------------------|--------------------|-------------------------------|

|                          |                           |                       |                 |                          |
|--------------------------|---------------------------|-----------------------|-----------------|--------------------------|
| <b>Injection Molding</b> | Cylinder Temperature (°C) | Mold Temperature (°C) | Injection Speed | Injection Pressure (MPa) |
|                          | 200-220                   | 30-50                 | Medium          | 40-130                   |

All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests.