



# SABIC® PP 71EK71PS

## PP block copolymer for Pipe extrusion

### Description:

This polypropylene block copolymer has a high molecular weight with a long-term heat stabilisation package. It exhibits high stiffness in combination with outstanding impact strength even at low temperatures. This material is particularly suitable for sewage pipe applications and can also be used for blow-moulding and sheet extrusion.

### Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site <http://www.SABIC-europe.com>

### Typical values

Revision 20050607

| Properties  | Unit (Si)         | Values          | Test methods |
|---|-------------------|-----------------|--------------|
| <b>Polymer properties</b>                                 |                   |                 |              |
| <b>Melt flow rate (MFR)</b><br>at 230 °C and 2.16 kg      | g/10 min          | <b>0.3</b>      | ISO 1133     |
| <b>Density</b>  | kg/m <sup>3</sup> | <b>905</b>      | ISO 1183     |
| <b>Mechanical properties</b>                              |                   |                 |              |
| <b>Tensile test</b>                                       |                   |                 | ISO 527      |
| stress at yield   | MPa               | <b>35</b>       |              |
| stress at break   | MPa               | <b>39</b>       |              |
| strain at break   | %                 | <b>&gt;500</b>  |              |
| <b>Flexural test</b>                                      |                   |                 | ASTM D 790   |
| Flexural modulus  | MPa               | <b>1500</b>     |              |
| <b>Izod impact notched</b>                                |                   |                 | ISO 180/4A   |
| at 23 °C  | kJ/m <sup>2</sup> | <b>No Break</b> |              |
| at 0 °C   | kJ/m <sup>2</sup> | <b>9.0</b>      |              |
| at -20 °C   | kJ/m <sup>2</sup> | <b>5.0</b>      |              |
| <b>Charpy impact notched</b>                              |                   |                 | ISO 179      |
| at 23 °C  | kJ/m <sup>2</sup> | <b>70</b>       |              |
| at 0 °C   | kJ/m <sup>2</sup> | <b>-</b>        |              |
| at -20 °C   | kJ/m <sup>2</sup> | <b>7.2</b>      |              |
| <b>Thermal properties</b>                                 |                   |                 |              |
| <b>Heat deflection temperature</b><br>at 0.45 MPa (HDT/B) | °C                | <b>94</b>       | ISO 75/B     |
| <b>Vicat softening temperature</b><br>at 10 N (VST/A)     | °C                | <b>155</b>      | ISO 306/A    |
| at 50 N (VST/B)   | °C                | <b>-</b>        | ISO 306/B    |

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