



SABIC® PP RA1E10

PP random copolymer for Pipe extrusion

Rev: 2004-11

Description:

This random copolymer has a high molecular weight and therefore low flow properties. This grade is medium ethylene modified and is typically used in pipe & 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 20060221

| Properties | Unit (Si) | Values | Test methods |
|--|---|---|------------------------|
| Polymer properties | | | |
| Melt flow rate (MFR) at 190 °C and 5 kg at 230 °C and 2.16 kg | g/10 min g/10 min | 0.50 0.30 | ISO 1133 |
| Density | kg/m ³ | 895 | ISO 1183 |
| Mechanical properties | | | |
| Tensile test stress at yield stress at break strain at break | MPa MPa % | 25 30 >50 | ISO 527 |
| Flexural test Flexural modulus | MPa | 800 | ASTM D 790 |
| Izod impact notched at 23 °C at 0 °C at -20 °C | kJ/m ² kJ/m ² kJ/m ² | 15 - - | ISO 180/4A |
| Charpy impact notched at 23 °C at 0 °C at -20 °C | kJ/m ² kJ/m ² kJ/m ² | 20 - - | ISO 179 |
| Charpy impact unnotched at 23 °C | kJ/m ² | >60 | ISO 179 |
| Thermal properties | | | |
| Vicat softening temperature at 10 N (VST/A) at 50 N (VST/B) | °C °C | 131 66 | ISO 306/A ISO 306/B |

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