

TYPICAL PROPERTIES OF POLYPROPYLENE (PP)

| ISO or UL Test | Property | HPP* | HPP-filled | CPP** | CPP-filled |
|-------------------|---|-------------|--------------|-------------|-------------|
| ISO1183 | Specific gravity | 0.90-0.91 | 0.97-1.27 | 0.89-0.91 | 0.98-1.24 |
| ISO62 | Water absorption (%) | 0.01-0.03 | 0.01-0.09 | 0.03 | 0.01-0.02 |
| ISO527 | Tensile strength (MPa) | 31.03-41.37 | 24.13-110.32 | 27.58-37.92 | 17.24-68.95 |
| ISO527 | Elongation at break (%) | 100-600 | 1.5-80 | 200-500 | 2.2-50 |
| ISO527 | Tensile modulus (MPa) | 113.7-155.1 | 258.5-689.5 | 89.6-124.1 | 34.4-241.3 |
| ISO178 | Flexural modulus (MPa) | 117.2-172.3 | 144.8-689.5 | 89.6-137.9 | 144.8-661.9 |
| ISO180 | Notched izod impact strength (J/m) | 21-75 | 32-641 | 59-747 | 32-214 |
| ASTM D785 | Hardness, Rockwell R | 80-102 | 75-117 | 65-96 | 81-105 |
| ISO8302 | Thermal conductivity (W/(mK)) | 0.22 | 0.25-0.51 | 0.22 | 0.25-0.51 |
| ISO11359 | Coefficient of thermal expansion (10 ⁻⁴ m/m-°C) | 1.4-1.8 | 0.27-0.90 | 1.08-1.80 | 0.36-1.08 |
| ISO75 | Deflection temperature (°C) | | | | |
| | At 1.80 MPa | 49-60 | 54-166 | 49-60 | 47-138 |
| | At 0.45 MPa | 107-121 | 104-149 | 85-104 | 77-152 |
| UL 94 | UL flammability rating*** | HB | HB | HB | HB |

*Homopolymer polypropylene **Copolymer polypropylene ***V-2 ... V-1 ... V-0 ... V-5 ... grades available.