

POLIFOR® C40 UV Black 900 - PP

Description

Polypropylene copolymer, unfilled, UV stabilized

| Physical properties | Value | Unit | Test Standard |
|---------------------|-------|--------------------|---------------|
| Density | 56.2 | lb/ft ³ | ISO 1183 |
| Melt flow rate, MFR | 42 | g/10min | ISO 1133 |
| MFR temperature | 446 | °F | ISO 1133 |
| MFR load | 4.76 | lb | ISO 1133 |

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------------------|--------|-----------------------|---------------|
| Tensile stress at yield, 50mm/min | 3190 | psi | ISO 527-1, -2 |
| Tensile strain at break, 50mm/min | >20 | % | ISO 527-1, -2 |
| Flexural modulus, 23°C | 167000 | psi | ISO 178 |
| Izod impact notched, 23°C | 2.85 | ft-lb/in ² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|---------------|
| Vicat softening temperature, 50°C/h 50N | 158 | °F | ISO 306 |
| Flammability @1.6mm nom. thickn. | HB | class | UL 94 |
| Flammability @3.2mm nom. thickn. | HB | class | UL 94 |

Typical injection moulding processing conditions

| Pre Drying | Value | Unit |
|--------------------|-----------|------|
| Drying time | 2 - 3 | h |
| Drying temperature | 176 - 212 | °F |

| Temperature | Value | Unit |
|-------------------|-----------|------|
| Zone1 temperature | 374 - 410 | °F |
| Zone2 temperature | 410 - 446 | °F |
| Zone3 temperature | 428 - 464 | °F |
| Melt temperature | 446 - 482 | °F |
| Mold temperature | 86 - 140 | °F |