



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
 Polymers Americas

Technical Data Sheet
 Polypropylene – Impact Copolymer
 Produced in the United States

Description

Polypropylene 4740WZ polypropylene is a nucleated impact copolymer with a Melt Flow of 25 g/10min.

Easy Flow: 4740WZ is characterized by improved stiffness, creep resistance, high impact resistance, excellent antistatic properties and has been formulated to allow faster cycling through early demolding.

Applications: 4740WZ has been developed specifically for the injection molding of garden furniture, housewares and thin-walled articles.

Characteristics

| | Method | Unit | Typical Value |
|---|--------------|-------------------|-------------------|
| Rheological Properties | | | |
| Melt Flow | D-1238 | g/10 min | 25 |
| Mechanical Properties | | | |
| Tensile Strength At Yield | D-638 | psi (MPa) | 4,000 (28) |
| Elongation | D-638 | % | 6 |
| Flexural Modulus | D-790 | psi (MPa) | 225,000 (1,550) |
| Izod Impact Notched | | | |
| @ 23°C | D-256 | ft.lb./in. (J/m) | 1.8 (96) |
| @ -20°C | D-256 | ft.lb./in. (J/m) | 0.8 (43) |
| Thermal Properties⁽¹⁾ | | | |
| Heat Deflection Temperature | D-648 | °F (°C) | 230 (110) |
| Vicat Softening Point | D-1525 | °F (°C) | 302 (150) |
| Other Physical Properties | | | |
| Density | D-1505 | g/cm ³ | 0.905 |
| Melting Range | TOTAL Method | °F (°C) | 320-329 (160-165) |

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.