

## Description

**Polypropylene 4820WZ** is a nucleated impact copolymer with a Melt Flow of 35 g/10min.

4820WZ is characterized by improved stiffness, creep resistance, high impact resistance, excellent antistatic properties and has been formulated to allow faster cycling through early demolding.

4820WZ has been developed specifically for the injection molding of garden furniture, housewares, thin-walled articles, and compounding.

## Characteristics

|   | Method       | Unit              | Typical Value   |
|---|--------------|-------------------|-----------------|
| <b>Rheological Properties</b>           |              |                   |                 |
| Melt Flow                               | D-1238       | g/10 min          | 35              |
| <b>Mechanical Properties</b>            |              |                   |                 |
| Tensile, Strength at Yield              | D-638        | psi (MPa)         | 4,000 (27)      |
| Elongation at Yield                     | D-638        | %                 | 6               |
| Flexural Modulus                        | D-790        | psi (MPa)         | 200,000 (1,380) |
| Izod Impact (Notched)<br>@ 23°C         | D-256        | ft.-lbs/in. (J/m) | 1.5 (80)        |
| @ -20°C                                 | D-256        | ft.-lbs/in. (J/m) | 0.7 (37)        |
| Charpy Impact Strength<br>@ 23°C        | DIN 53453    | kJ/m <sup>2</sup> | 9.5             |
| @ -20°C                                 | DIN 53453    | kJ/m <sup>2</sup> | 4.5             |
| <b>Thermal Properties<sup>(1)</sup></b> |              |                   |                 |
| Melting Range                           | TOTAL Method | °C                | 160-165         |
| Heat Deflection                         | D-648        | °C                | 100             |
| Vicat Impact Strength                   | D-1525       | °C                | 150             |
| <b>Other Physical Properties</b>        |              |                   |                 |
| Density                                 | ASTM D-1505  | g/cm <sup>3</sup> | 0.905           |