

# POLYPROPYLENE



## P4G3Z-050

**DESCRIPTION:** Homopolymer for extrusion.

**FEATURES:** Low water carry-over. Produced without animal derived components or phthalates.

**APPLICATIONS:** Slit tape and fibers.

| RESIN PROPERTIES          | TYPICAL VALUE (SI)     | TYPICAL VALUE (ENGLISH) | ASTM TEST METHOD |
|---------------------------|------------------------|-------------------------|------------------|
| Melt Flow Rate            | 3.5 g/10 min           |                         | D 1238           |
| Density                   | 0.90 g/cm <sup>3</sup> |                         | D 1505           |
| Melting Temperature Range | 160-165 °C             | 320-329 °F              | D 3418           |

| MECHANICAL PROPERTIES                         |                |                  |        |
|---|----------------|------------------|--------|
| Tensile<br>Yield Strength<br>Yield Elongation | 39 MPa<br>9.0% | 5600 psi<br>9.0% | D 638  |
| Flexural Modulus<br>1% Secant                 | 1590 MPa       | 230 kpsi         | D 790  |
| Deflection Temperature @ 66 psi (.455 MPa)    | 101 °C         | 214 °F           | D 648  |
| Rockwell Hardness                             |                | 100 R            | D 785  |
| Notched Izod @ 23°C                           | 40 J/m         | 0.7 ft-lb/in     | D 256  |
| Gardner Impact @ 23°C                         | 17 J           | 150 in-lb        | D 5420 |

Sept. 15

### Regulatory

FDA – 21CFR 177.1520 (c) 1.1a.

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