



**TITAN
CHEMICALS**

TITAN PETCHEM (M) SDN. BHD.

(Co. No. 154990 W)
(Formerly known as Titan PP Polymers (M) Sdn. Bhd.)

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Product Data

TITANPRO 6331 FOR GENERAL PURPOSE INJECTION MOLDING

| | |
|---------------------|--|
| CHARACTER | Polypropylene homopolymer. The base resin meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(a)(1)(i) and (c)1.1a. The adjuvants meet their respective FDA regulations and 21 CFR 177.1520(b). In summary, this resin meets the FDA criteria covering safe use of polyolefin articles and component of articles intended for food contact use. TSCA Registry: CAS#9003-07-0 |
| APPLICATIONS | Closures, housewares, toys, games, pill boxes, containers, healthcare devices, syringe barrel, pen cap and pen body. |
| ADVANTAGES | Good processability. High stiffness. Good heat deflection temperature. Microwaveable for food reheating purposes. |
| FABRICATION | Equipment - ram or screw injection machines. Techniques - standard processing. |

| <u>TYPICAL RESIN PROPERTIES</u> ^(a) | <u>UNIT</u> | <u>TITANPRO 6331</u> | <u>ASTM METHOD</u> ^(b) |
|---|--------------------|----------------------|-----------------------------------|
| Melt Flow Rate, at 230°C | g/10 min | 14 | D1238 |
| Density | g/cm ³ | 0.9 | D1505 |
| Tensile Strength at Yield | kg/cm ² | 360 | D638 |
| Elongation at Yield | % | 10 | D638 |
| Flexural Modulus | kg/cm ² | 17500 | D790B |
| Notched Izod Impact Strength at 23°C | kg.cm/cm | 2.6 | D256A |
| Heat Deflection Temperature at 4.6 kg/cm ² | °C | 99 | D648 |
| Rockwell Hardness | R scale | 97 | D785A |
| Water absorption after 24 hours | % | 0.02 | D570 |

(a) Values shown are averages and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

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