

Product Data

Developmental Data

TITANPRO SM668

FOR INJECTION MOLDING AND INJECTION STRETCH BLOW MOLDING

| | |
|---------------------|---|
| CHARACTER | Polypropylene random copolymer. SM668 is a clarified grade designed for high transparency articles which complies with the U.S. Food and Drug Administration (FDA) regulation as specified in 21 CFR 177.1520(a)(3)(i) and (c)3.1a. TSCA Registry: CAS# 9010-79-1 |
| APPLICATIONS | High transparent thin walled containers, storage containers, large articles, housewares. High clarity oriented PP bottles for hot filled applications, baby feeding bottles, toiletries and detergent packaging, moisture sensitive packaging etc. |
| ADVANTAGES | Excellent clarity. Good balance of rigidity and impact resistance. Excellent moisture barrier. Suitable for hot filling and thin walled products. |
| FABRICATION | Equipment - injection molding machine, injection stretch blow molding (ISBM) machine. Techniques - standard processing. Please refer to our Technical Service Department for further information on processing condition. |

| TYPICAL RESIN PROPERTIES ^(a) | UNIT | SM668 | ASTM METHOD ^(b) |
|---|--------------------|--------------|-----------------------------------|
| Melt Flow Rate, at 230°C | g/10 min | 20 | D1238 |
| Density | g/cm ³ | 0.9 | D1505 |
| Tensile Strength at Yield | kg/cm ² | 300 | D638 |
| Elongation at Yield | % | 10 | D638 |
| Flexural Modulus | kg/cm ² | 11000 | D790B |
| Notched Izod Impact Strength at 23°C | kg·cm/cm | 5 | D256A |
| Heat Deflection Temperature at 4.6 kg/cm ² | °C | 85 | D648 |
| Rockwell Hardness | R scale | 85 | D785A |
| Water absorption after 24 hours | % | 0.02 | D570 |

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

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

Shrinkage: 1.3 - 1.4% depending on the product wall thickness and molding parameters.

NOTES:

1. Do not mix SM668 with other clarified PP random copolymers during processing, including but not limited to virgin and/or recycled resins, scrap, rejected product, sprue & runner, trimmed part etc.
2. Please ensure minimum melt temperature of 230°C to optimize the clarity of final article.

LOTTE CHEMICAL TITAN (M) SDN. BHD.

