# TOTAL Polypropylene PPR 3727WZ

Polypropylene Random Copolymer

TOTAL Refining & Chemicals

## Message:

TOTAL Petrochemicals Polypropylene 3727WZ strikes an optimum balance between excellent mechanical properties (tensile, flex and impact) and processability making it a superior molding grade for cap and closure applications.
3727WZ offers improved impact strength.
3727WZ is formulated to provide fast cycle time and improve contact clarity in thin wall multi-cavity molds.
3727WZ contains an antistat to help protect molded parts from dust accumulation.
3727WZ complies with all applicable FDA regulations for food contact applications.
3727WZ is recommended for large thin wall parts, caps and closures.

| General Information | | | |
|---|---|---|---|
| Features | Impact resistance, good<br>Workability, good<br>Fast molding cycle<br>Compliance of Food Exposure<br>Transparent appearance | | |
| Uses | Thin wall parts<br>Shield<br>Shell | | |
| Agency Ratings | EC 1907/2006 (REACH)<br>FDA Food Exposure, Not Rated | | |
| RoHS Compliance | RoHS compliance | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 0.905 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 20 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 1240 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 33.1 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 12 | % | ASTM D638 |
| Flexural Modulus | 1310 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C) | 53 | J/m | ASTM D256A |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 104 | °C | ASTM D648 |

| | | | |
|---|---|---|---|
| Vicat Softening Temperature | 140 | °C | ASTM D1525 |
| Melting Temperature | 158 | °C | DSC |

| Additional Information |
|---|
| Drop Impact, API, 0.125 in Plaques: 160 in-lb |

| Injection | Nominal Value | Unit |
|---|---|---|
| Processing (Melt) Temp | 200 - 232 | °C |



## Recommended distributors for this material

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