

## Total PPR 10232 Random Copolymer Polypropylene, Injection Molding

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

### Material Notes:

Total Petrochemicals PPR 10232 is a nucleated and antistatic random copolymer polypropylene with a melt flow index of 40 g/10min for the injection molding of articles with high transparency and excellent surface appearance. Polypropylene PPR 10232 has an excellent food compatibility due to its low odor, making it especially suitable for the production of food packaging and housewares products. Peroxide is not used in the manufacturing of the above mentioned product. Information provided by Total Petrochemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PPR-10232-Random-Copolymer-Polypropylene-Injection-Molding.php](http://www.lookpolymers.com/polymer_Total-PPR-10232-Random-Copolymer-Polypropylene-Injection-Molding.php)

| Physical Properties | Metric  | English   | Comments |
|---------------------|---|---|----------|
| Specific Gravity    | 0.902 g/cc  | 0.902 g/cc  | ISO 1183 |
| Bulk Density        | 0.525 g/cc  | 0.0190 lb/in <sup>3</sup>                           | ISO 1183 |
| Melt Flow           | 40 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 40 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ISO 1133 |

| Mechanical Properties      | Metric                  | English                    | Comments   |
|----------------------------|-------------------------|----------------------------|------------|
| Hardness, Rockwell R       | 84                      | 84                         | ISO 2039-2 |
| Tensile Strength, Yield    | 28.0 MPa                | 4060 psi                   | ISO 572-2  |
| Elongation at Yield        | 10 %                    | 10 %                       | ISO 572-2  |
| Tensile Modulus            | 1.20 GPa                | 174 ksi                    | ISO 572-2  |
| Flexural Modulus           | 1.15 GPa                | 167 ksi                    | ISO 178    |
| Izod Impact, Notched (ISO) | 5.00 kJ/m <sup>2</sup>  | 2.38 ft-lb/in <sup>2</sup> | ISO 180    |
| Charpy Impact, Notched     | 0.600 J/cm <sup>2</sup> | 2.86 ft-lb/in <sup>2</sup> | ISO 179    |

| Thermal Properties    | Metric                   | English                 | Comments               |
|-----------------------|--------------------------|-------------------------|------------------------|
| Melting Point         | 147 °C                   | 297 °F                  | ISO 3146               |
| Vicat Softening Point | 67.0 °C<br>@Load 5.10 kg | 153 °F<br>@Load 11.2 lb | 50°C per hour; ISO 306 |
|                       | 130 °C<br>@Load 1.02 kg  | 266 °F<br>@Load 2.25 lb | 50°C per hour; ISO 306 |

## **Contact Songhan Plastic Technology Co.,Ltd.**

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