

## Total PPH 4030 Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

### Material Notes:

Polypropylene PPH 4030 is a homopolymer polypropylene with a Melt Flow index of 3 g/10 min. Polypropylene PPH 4030 has been designed for the production of BOPP film with the tenter frame process. The product combines a good processability at excellent film properties. It is suitable for metallizable films, is calcium stearate free and has a low ash content. Information provided by Total Petrochemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PPH-4030-Polypropylene-Homopolymer.php](http://www.lookpolymers.com/polymer_Total-PPH-4030-Polypropylene-Homopolymer.php)

| Physical Properties | Metric                                               | English                                              | Comments |
|---------------------|------------------------------------------------------|------------------------------------------------------|----------|
| Specific Gravity    | 0.905 g/cc                                           | 0.905 g/cc                                           | ISO 1183 |
| Bulk Density        | 0.525 g/cc                                           | 0.0190 lb/in <sup>3</sup>                            | ISO 1183 |
| Melt Flow           | 3.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 3.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ISO 1133 |

| Mechanical Properties      | Metric                  | English                    | Comments   |
|----------------------------|-------------------------|----------------------------|------------|
| Hardness, Rockwell R       | 90                      | 90                         | ISO 2039-2 |
| Tensile Strength, Yield    | 33.0 MPa                | 4790 psi                   | ISO 527-2  |
| Elongation at Yield        | 10 %                    | 10 %                       | ISO 527-2  |
| Tensile Modulus            | 1.45 GPa                | 210 ksi                    | ISO 527-2  |
| Flexural Modulus           | 1.35 GPa                | 196 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                               | 165 °C                   | 329 °F                  | ISO 3146                |
| Deflection Temperature at 0.46 MPa (66 psi) | 100 °C                   | 212 °F                  | 120°C per hour; ISO 752 |
| Deflection Temperature at 1.8 MPa (264 psi) | 55.0 °C                  | 131 °F                  | 120°C per hour; ISO 752 |
| Vicat Softening Point                       | 85.0 °C<br>@Load 5.10 kg | 185 °F<br>@Load 11.2 lb | 50°C per hour; ISO 306  |
|                                             | 150 °C                   | 302 °F                  | 50°C per hour; ISO 306  |

| Thermal Properties | Metric        | English       | Comments |
|--------------------|---------------|---------------|----------|
|                    | @Load 1.02 kg | @Load 2.25 lb |          |

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