

# TOTAL Polypropylene PPH 3060

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 3060 is homopolymer with a Melt Flow Index of 1.8 g/10 min.  
Polypropylene PPH 3060 is characterized by a low fluidity for continuous extrusion of strapping, rope fibers and high tenacity tapes for bags.  
It is also well designed for blow molding or extrusion-thermoforming.

| General Information                       |                      |                   |             |
|-------------------------------------------|----------------------|-------------------|-------------|
| Features                                  | Homopolymer          |                   |             |
| Uses                                      | Fibers               |                   |             |
|                                           | Rope                 |                   |             |
|                                           | Strapping            |                   |             |
|                                           | Tape                 |                   |             |
| Agency Ratings                            | EC 1907/2006 (REACH) |                   |             |
|                                           | EU 2002/96/EC (WEEE) |                   |             |
|                                           | EU 2003/11/EC        |                   |             |
|                                           | EU 76/769/EC         |                   |             |
|                                           | EU 94/62/EC          |                   |             |
| RoHS Compliance                           | RoHS Compliant       |                   |             |
| Forms                                     | Pellets              |                   |             |
| Processing Method                         | Blow Molding         |                   |             |
|                                           | Extrusion            |                   |             |
|                                           | Thermoforming        |                   |             |
| Physical                                  | Nominal Value        | Unit              | Test Method |
| Density                                   | 0.905                | g/cm <sup>3</sup> | ISO 1183    |
| Apparent Density                          | 0.53                 | g/cm <sup>3</sup> | ISO 60      |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.8                  | g/10 min          | ISO 1133    |
| Hardness                                  | Nominal Value        | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 90                   |                   | ISO 2039-2  |
| Mechanical                                | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                           | 1400                 | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                    | 35.0                 | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                    | 10                   | %                 | ISO 527-2   |
| Flexural Modulus                          | 1300                 | MPa               | ISO 178     |
| Impact                                    | Nominal Value        | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)     | 7.0                  | kJ/m <sup>2</sup> | ISO 179     |

| Notched Izod Impact Strength (23°C)      | 6.0           | kJ/m <sup>2</sup> | ISO 180     |
|------------------------------------------|---------------|-------------------|-------------|
| Thermal                                  | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature <sup>1</sup> |               |                   |             |
| 0.45 MPa, Unannealed                     | 100           | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                      | 55.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature              |               |                   |             |
| --                                       | 152           | °C                | ISO 306/A50 |
| --                                       | 87.0          | °C                | ISO 306/B50 |
| Melting Temperature (DSC)                | 165           | °C                | ISO 3146    |
| NOTE                                     |               |                   |             |
| 1.                                       | 120°C/hr      |                   |             |

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