

# TOTAL Polypropylene PPH 4060

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 4060 is homopolymer with a Melt Flow Index of 3 g/10 min.  
Polypropylene PPH 4060 is specially suitable for tape extrusion for woven applications and for extrusion thermoforming.  
Polypropylene PPH 4060 is also a general purpose injection grade for moulding technical items.

| General Information |                      |  |  |
|---------------------|----------------------|--|--|
| Features            | General Purpose      |  |  |
| Uses                | General Purpose      |  |  |
|                     | Tape                 |  |  |
| Agency Ratings      | EC 1907/2006 (REACH) |  |  |
| RoHS Compliance     | RoHS Compliant       |  |  |
| Forms               | Pellets              |  |  |
| Processing Method   | Extrusion            |  |  |
|                     | Injection Molding    |  |  |
|                     | 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) | 3.0           | 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        | 1450          | MPa  | ISO 527-2   |
| Tensile Stress (Yield) | 33.0          | MPa  | ISO 527-2   |
| Tensile Strain (Yield) | 10            | %    | ISO 527-2   |
| Flexural Modulus       | 1350          | MPa  | ISO 178     |

| Impact                                | Nominal Value | Unit              | Test Method |
|---------------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength (23°C) | 6.0           | kJ/m <sup>2</sup> | ISO 179     |
| Notched Izod Impact Strength (23°C)   | 5.0           | kJ/m <sup>2</sup> | ISO 180     |

| Thermal                     | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|------|-------------|
| Heat Deflection Temperature |               |      |             |
| 0.45 MPa, Unannealed        | 100           | °C   | ISO 75-2/B  |
| 1.8 MPa, Unannealed         | 55.0          | °C   | ISO 75-2/A  |
| Vicat Softening Temperature |               |      |             |
| --                          | 150           | °C   | ISO 306/A50 |

|                           |      |    |             |
|---------------------------|------|----|-------------|
| --                        | 85.0 | °C | ISO 306/B50 |
| Melting Temperature (DSC) | 165  | °C | ISO 3146    |

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