

Total PPH 9089 Polypropylene, Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

ATOFINA Polypropylene PPH 9089 is a very low molecular weight distribution homopolymer propylene, with anti gas-fading stabilization.

Application ATOFINA Polypropylene PPH 9089 is intended for the extrusion of fine fibers with the spunbond technology. Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-9089-Polypropylene-Homopolymer.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|----------|
| Bulk Density | 0.525 g/cc | 0.0190 lb/in ³ | ISO 1183 |
| Density | 0.905 g/cc | 0.0327 lb/in ³ | ISO 1183 |
| Melt Flow | 25 g/10 min @Load 2.16 kg, Temperature 230 °C | 25 g/10 min @Load 4.76 lb, Temperature 446 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|------------|
| Hardness, Rockwell R | 92 | 92 | ISO 2039-2 |
| Tensile Strength, Yield | 30.0 MPa | 4350 psi | ISO 527-2 |
| Elongation at Yield | 10 % | 10 % | ISO 527-2 |
| Tensile Modulus | 1.30 GPa | 189 ksi | ISO 527-2 |
| Flexural Modulus | 1.20 GPa | 174 ksi | ISO 527-2 |
| Izod Impact, Notched (ISO) | 3.50 kJ/m ² | 1.67 ft-lb/in ² | ISO 179 |
| Charpy Impact, Notched | 0.400 J/cm ² | 1.90 ft-lb/in ² | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|----------------------------|
| Melting Point | 165 °C | 329 °F | ISO 3146 |
| Deflection Temperature at 0.46 MPa (66 psi) | 95.0 °C | 203 °F | 120°C per hour; ISO 75-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 52.0 °C | 126 °F | 120°C per hour; ISO 75-2 |
| Vicat Softening Point | 80.0 °C | 176 °F | 50N-50°C per hour; ISO 306 |
| | 148 °C | 298 °F | 10N-50°C per hour; ISO 306 |

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