

Total PPM H350 Polypropylene, Homopolymer Medical Grade

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

Material Notes:

Polypropylene PPM H350 is a homopolymer with a Melt Flow Index of 35 g/10 min recommended for the manufacture of medical packaging and medical devices, to the exclusion of implants. Polypropylene PPM H350 is characterized by high fluidity and is particularly suitable for injection molding applications. The material provides a good balance between stiffness and impact. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPM-H350-Polypropylene-Homopolymer-Medical-Grade.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 ³ | ISO 1183 |
| Melt Flow | 35 g/10 min @Load 2.16 kg, Temperature 230 °C | 35 g/10 min @Load 4.76 lb, Temperature 446 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|------------|
| Hardness, Rockwell R | 96 | 96 | ISO 2039-2 |
| Tensile Strength, Yield | 32.0 MPa | 4640 psi | ISO 527-2 |
| Elongation at Yield | 9.0 % | 9.0 % | ISO 527-2 |
| Tensile Modulus | 1.60 GPa | 232 ksi | ISO 527-2 |
| Flexural Modulus | 1.50 GPa | 218 ksi | ISO 179 |
| Izod Impact, Notched (ISO) | 2.50 kJ/m ² | 1.19 ft-lb/in ² | ISO 180 |
| Charpy Impact, Notched | 0.300 J/cm ² | 1.43 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) | 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 | 89.0 °C @Load 5.10 kg | 192 °F @Load 11.2 lb | 50°C per hour; ISO 306 |

| Thermal Properties | 153 °C Metric | 307 °F English | Comments |
|--------------------|------------------|-------------------|-------------------------|
| | @Load 1.02 kg | @Load 2.25 lb | 50 °C per hour, ISO 306 |

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