

PolyOne Maxxam™ PPH-20C Nat Polypropylene Homopolymer (PP Homopolymer)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Maxxam-PPH-20C-Nat-Polypropylene-Homopolymer-PP-Homopolymer.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|---|-------------------------|
| Specific Gravity | 1.04 g/cc | 1.04 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0090 - 0.013 cm/cm | 0.0090 - 0.013 in/in | ASTM D955 |
| Melt Flow | 11 g/10 min @Load 2.16 kg, Temperature 230 °C | 11 g/10 min @Load 4.76 lb, Temperature 446 °F | Procedure A; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|------------------------------|
| Hardness, Rockwell R | 90 | 90 | ASTM D785 |
| Tensile Strength, Yield | 30.0 MPa | 4350 psi | Type I, 51 mm/min; ASTM D638 |
| Elongation at Break | 99 % | 99 % | Type I, 51 mm/min; ASTM D638 |
| Flexural Strength | 35.9 MPa | 5210 psi | ASTM D790 |
| Flexural Modulus | 1.93 GPa | 280 ksi | ASTM D790 |
| Izod Impact, Notched | 0.370 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 0.693 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |
| Izod Impact, Unnotched | 4.50 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 8.43 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 98.9 °C @Thickness 3.18 mm | 210 °F @Thickness 0.125 in | Unannealed; ASTM D648 |
| | HB | HB | |

| Flammability UL 94 Thermal Properties | Metric @ Thickness 1.50 mm | English @ Thickness 0.0591 in | ALL: UL 94 Comments |
|--|-------------------------------|----------------------------------|------------------------|
|--|-------------------------------|----------------------------------|------------------------|

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|---------------|----------|
| Mold Temperature | 16.0 - 50.0 °C | 60.8 - 122 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|--|----------|
| Appearance | Natural Color | |
| Features | General Purpose | |
| | Homopolymer | |
| Filler / Reinforcement | Calcium Carbonate Filler | |
| | Unspecified FillerReinfor., 20% Filler by Weight | |
| Forms | Pellets | |
| Generic Material | PP Homopolymer | |
| Generic Name | Polypropylene Homopolymer (PP Homopolymer) | |
| Processing Method | Injection Molding | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Uses | Automotive Applications | |
| | Construction Applications | |
| | Consumer Applications | |
| | General Purpose | |
| | Industrial Applications | |

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